



DVR

USER MANUAL

SHA104.V2

SHA108.V2



CONTENTS

| | |
|-------------------------------------------------------------------|----|
| Chapter 1. Features | 5 |
| Chapter 2. Panel | 6 |
| 2.1. Front Panel | 6 |
| 2.1.1. 4-CH Front Panel | 6 |
| 2.1.2. 8-CH Front Panel | 7 |
| 2.2. Rear Panel | 8 |
| 2.3. Remote Control | 9 |
| Chapter 3. Installation | 11 |
| 3.1. Installation(Hard Drive) | 11 |
| 3.2. Camera and Monitor Connection | 12 |
| 3.3. Power Supply Connection | 12 |
| 3.4. Connection Diagram: | 13 |
| Chapter 4. OSD Display | 14 |
| 4.1. Structure of OSD Display(4CH) | 14 |
| 4.1.1. Structure of OSD Display(8CH) | 15 |
| 4.2. The Symbol of Main Screen(Recording Alarm) | 16 |
| 4.3. Pop-out menu options | 17 |
| 4.3.1. Menu Lock | 17 |
| 4.3.2. Split Windows (For 8 CH Only) | 18 |
| 4.3.3. PTZ Control | 18 |
| 4.3.3.1. Cruise(PTZ) | 20 |
| 4.3.4. PIP Mode | 20 |
| 4.3.5. Search | 21 |
| 4.3.6. Record(Manual) | 21 |
| 4.3.7. Start Rotate(SEQ/CHANNEL AUTO SWITCHING) | 22 |
| 4.3.8. GUI output selection | 22 |
| 4.4. Main Menu Setup(Display) | 23 |
| 4.5. Main Menu Setup(Record) | 24 |
| 4.6. Main Menu Setup(Network) | 27 |
| 4.7. Main Menu Setup(Search/Playback) | 34 |
| 4.7.1. Main Menu Setup(Search/Log/Export) | 36 |
| 4.8. Main Menu Setup (Device Management) | 39 |
| 4.8.1. H.D.D & ALARM Setup | 39 |
| 4.8.2. Email Alarm Notification | 43 |
| 4.9. PTZ & Mobile Setup | 49 |
| 4.10. Motion Detection Setup | 52 |
| 4.11. Main Menu Setup | 54 |
| 【System/Privacy Zone/Time/Password/Video/Language/Maintain】 | 54 |

| | |
|---------------------------------------------------------|-----|
| Chapter 5. Network Access(Remote)..... | 64 |
| 5.1. IE Setup | 64 |
| 5.2. Web Log-in(IE Browser)..... | 64 |
| 5.3 Control Panel(Live view) | 65 |
| 5.4. Setup(Remote Setting)..... | 67 |
| 5.4.1. Structure of Remote Setting..... | 67 |
| 5.4.2. Display Setup..... | 68 |
| 5.4.3. Record Schedule:..... | 69 |
| 5.4.4. Alarm Setup..... | 71 |
| 5.4.5. Network..... | 71 |
| 5.4.5.1. Static IP..... | 72 |
| 5.4.5.2. DHCP..... | 72 |
| 5.4.5.3. PPPoE..... | 73 |
| 5.4.5.4. DDNS | 74 |
| 5.4.5.5. Email Setup..... | 75 |
| 5.4.6. Device (H.D.D/PTZ/Mobile/Motion) | 76 |
| 5.4.7. System setup(Password/DST)..... | 78 |
| 5.4.7.1. System setup | 78 |
| 5.4.7.2. Authority(Password management) | 78 |
| 5.4.7.3. DST SETUP | 79 |
| 5.4.7.4. System information | 80 |
| 5.5. Local Setting..... | 80 |
| 5.6. Playback(IE Browser):..... | 81 |
| 5.6.1. Logout | 83 |
| 5.7. Mobile Phones Access..... | 84 |
| 5.7.1. Mobile Setup..... | 84 |
| 5.8. Install & Operate (Windows® Mobile Phones) | 86 |
| 5.9. Install & Operate(Symbian® Phones) | 90 |
| 5.10. Install & Operate (iPhone®) | 94 |
| 5.11. Installation & Operation (Blackberry Mobile)..... | 101 |
| 5.11.1. Installation..... | 101 |
| 5.11.2. Setup & Operation | 103 |
| 5.12. Android Mobile | 108 |
| Forwarding the port of Router for Mobile phone..... | 113 |
| Chapter 6. Specifications | 116 |
| Appendix A – Time Zone Table | 117 |
| Appendix B – Play Back Utility | 119 |
| Installation (Utility Software/Applications)..... | 119 |
| Playback Player..... | 123 |
| Play & Review Backup File | 123 |
| Appendix C- Sustainable Record Time List..... | 124 |
| Appendix D- Applying Free DDNS Host from Kguard..... | 125 |

| | |
|--------------------------------------------------------|-----|
| Appendix E- Applying free DDNS from internet..... | 128 |
| Appendix F- The Structure Diagram Of OSD Display | 134 |
| Appendix G- FAQ Troubleshooting | 135 |
| Appendix H -Email Server Check List | 136 |
| Appendix I- USB Device Support List..... | 136 |
| Appendix J- 3G Mobile Phone Local Service Center | 137 |
| Appendix K -Mobile Phone support list | 137 |
| Appendix L –H.D.D support list | 140 |

Safety Precautions

⚠ Do Not touch live electrical parts.

Electric shock can be avoided. Follow the recommended practices listed below. Faulty installation, improper grounding, and incorrect operation and maintenance of electrical equipment are always sources of danger.

⚠ Do Not try to install equipment outdoor, when the wind and rain is strong.

⚠ Do Not install or remove equipment outdoor, when the weather is raining.

⚠ Do Not try to install or operate any equipment, when the thunderstorm happened.

⚠ Always Ground all electrical equipment and the work platform.

Prevent accidental electrical shocks. Connect power source, control cabinets, and work platform to an approved electrical ground.

⚠ Always use the correct cable size.

Sustained overloading will cause cable failure and result in possible electrical shock or fire hazard. Work cable should be the same rating as the factory.

⚠ Always keep cables and connectors in good condition.

Improper or worn electrical connections can cause short circuits and can increase the chance of an electrical shock. Do not use worn, damaged, or bare cables.

⚠ Always avoid open-circuit voltage.

The added voltages increase the severity of the electric shock hazard.

⚠ Always wear insulated gloves while you adjust equipments.

Electric power should be turn off and insulated gloves should be worn when making any equipment adjustment to assure shock protection.

⚠ Always wear protective clothing such as long sleeve shorts while you are installing or removing equipments.

⚠ Always Wear high, snug fitting shoes.

⚠ Always Wear clean clothes without grease or oil.

⚠ Protect neighboring workers from exposure to arc radiation.

⚠ Always Wear long trousers or jeans while you are installing or removing equipments.

⚠ Always wear safety helmet or hard head and safety shoes before work.

⚠ Always keep the equipments in dry places.

⚠ Always wear safety harnesses/belt while you work in high places.

⚠ Always wear dry clothing and avoid moisture and water.

⚠ Always wear Public Safety Vest, while you work at night.

⚠ Make sure all electrical connections are tight, clean, and dry.

⚠ Make sure that you are well insulated and eliminate the electric static charge.

⚠ Always wear dry gloves, rubber-soled shoes, or stand on a dry board or platform.

⚠ Always Follow recognized safety standards.




⚠ Always wear correct eye, ear, and body protection.

⚠ Always have second person on-site, while you work in the darkness places, poor ventilation places and high places.

⚠ Make sure that you are well protected against arc flashes, mechanical injury, or other mishaps.

⚠ Make sure that the polarity of wire is correct, before installing equipments.

⚠ Always handle equipment with care.

-  **Do Not block the ventilation of equipment.**
-  **Do Not put the magnetic parts around the Equipment.**
-  **Do Not put the objects on top of equipment.**

**Warning**

This is the symbol for indicating any potential hazard, risk or condition requiring special attention. The user needs to refer to the important operating and maintenance or servicing instructions.

**Caution**

The lighting flash with an arrow head symbol, in an equilateral triangle, is intended to alert the user. There is dangerous “voltage” presence near by the product’s enclosure which may be risk of person.



Attention:
The default OSD is on VGA output.



Note:
To change OSD Output default, please refer to user’s manual. (Section 4.11 Main Menu Setup)

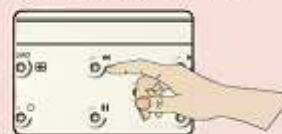


Lost OSD control menu on screen?

Solution 1
Remote control
Press the button “0”



Solution 2
Front panel
Press “←” button for 5 seconds.



FCC Compliance Statement

-
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION!

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

LIMITATION OF LIABILITY

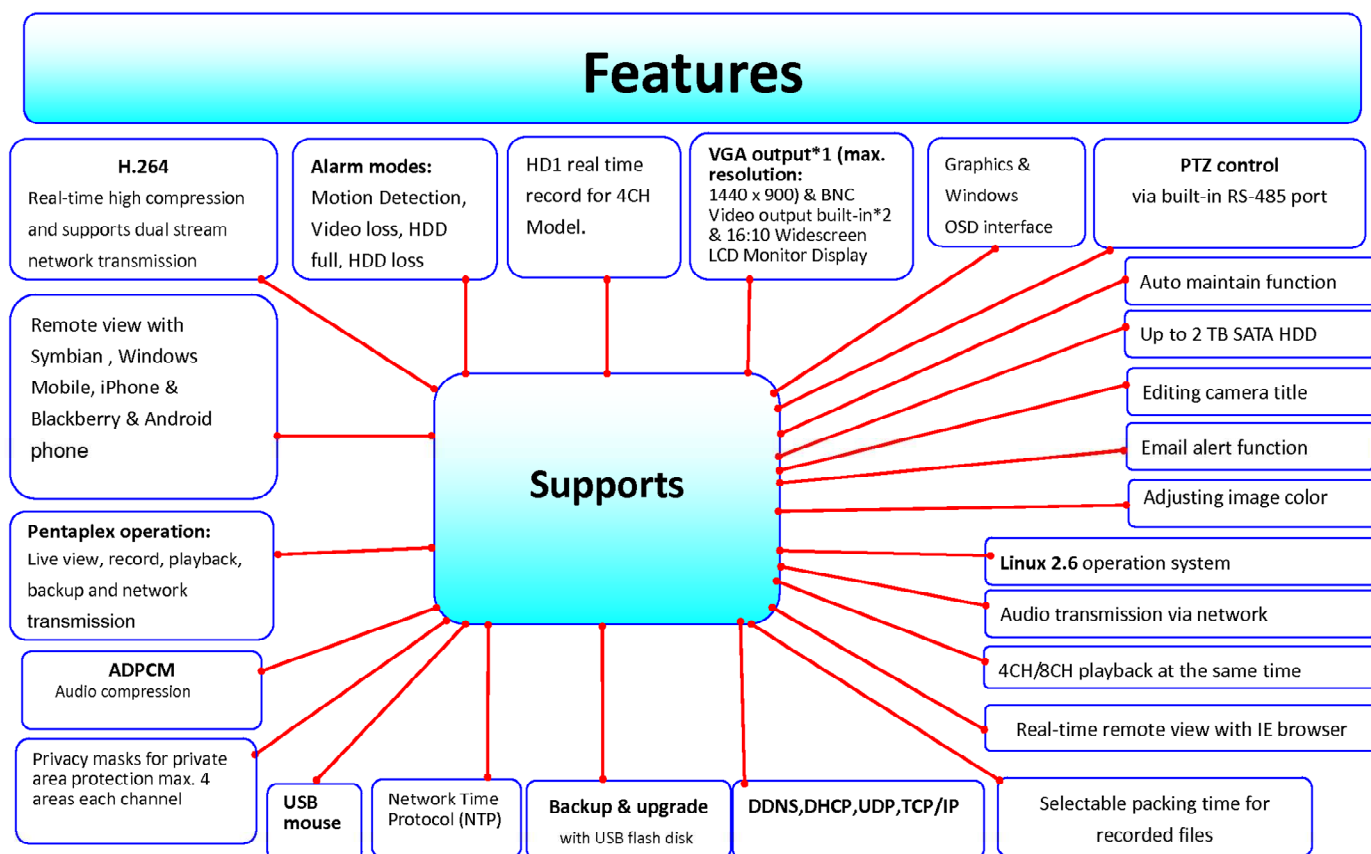
- THIS PUBLICATION IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT OF THE THIRD PARTY'S RIGHT.
- THIS PUBLICATION COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE ADDED TO THE INFORMATION HEREIN, AT ANY TIME, FOR THE IMPROVEMENTS OF THIS PUBLICATION AND/OR THE CORRESPONDING PRODUCT(S).

DISCLAIMER OF WARRANTY

IN NO EVENT SHALL THE SUPPLIER BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO THE FOLLOWINGS:

- ANY DAMAGE OR LOSS, INCLUDING BUT WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED WITH THE DEVICES OF THE THIRD PARTY;
- ANY CLAIM OR ACTION FOR DAMAGES, BROUGHT BY ANY PERSON OR ORGANIZATION BEING A PHOTOGENIC SUBJECT, DUE TO VIOLATION OF PRIVACY WITH THE RESULT OF THAT SURVEILLANCE-CAMERA'S PICTURE, INCLUDING SAVED DATA, FOR SOME REASON, BECOMES PUBLIC OR IS USED FOR THE PURPOSE OTHER THAN SURVEILLANCE.

Chapter 1. Features



Accessories:



CD*1



Remote Control*1



Power Supply 12V/3A *1

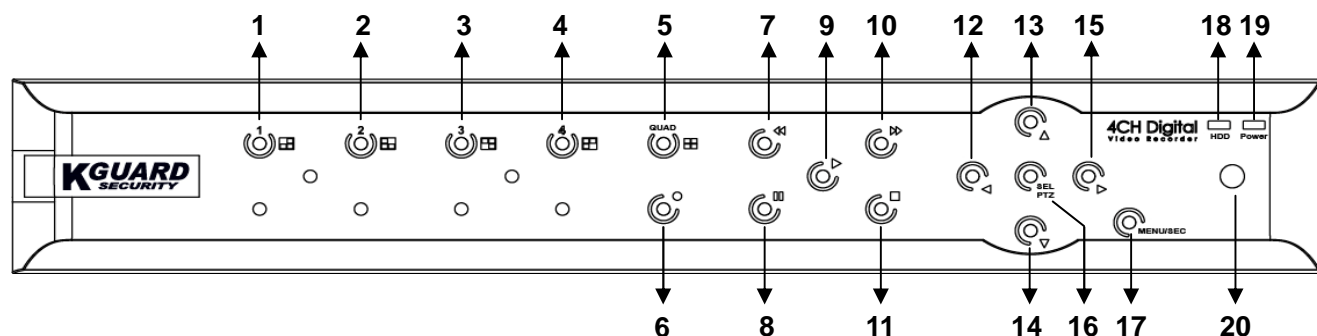

















Mouse*1

Chapter 2. Panel

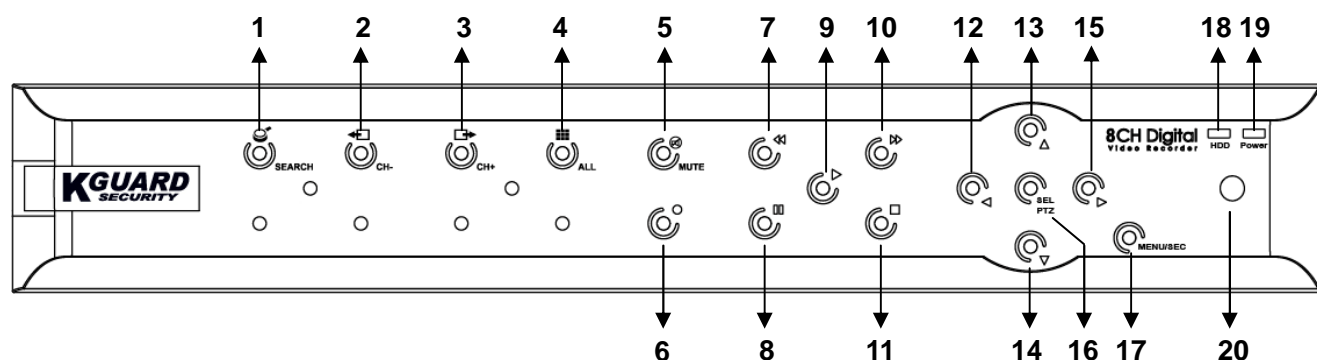
2.1. Front Panel
















2.1.1. 4-CH Front Panel



| No. | Key/Indicator | Marks | Functions |
|-----|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1 | CH1 |  | Display Channel 1 into full screen |
| 2 | CH2 |  | Display Channel 2 into full screen |
| 3 | CH3 |  | Display Channel 3 into full screen |
| 4 | CH4 |  | Display Channel 4 into full screen |
| 5 | QUAD |  | For Quad display |
| 6 | REC |  | Start manual recording |
| 7 | REW |  | Move leftward / Rewind(it also can be used for switching OSD control panel) |
| 8 | PAUSE |  | Pause / play frame by frame |
| 9 | PLAY |  | Enter into playback mode / Play button |
| 10 | FWD |  | Move rightward / Play forward |
| 11 | STOP |  | Stop Playback / stop manual recording |
| 12 | LEFT |  | Enter into main menu or exit menu |
| 13 | UP |  | Move Up |
| 14 | DOWN |  | Move Down |
| 15 | RIGHT |  | Move rightward / Play forward |
| 16 | SEL/PTZ | SEL/PTZ | Enter system pop-up (short cut) menu bar/ edit button / enter PTZ mode |
| 17 | MENU/ESC | MENU/ESC | Enter/exit system menu |
| 18 | HDD indicator | HDD | H.D.D indicator |
| 19 | Power indicator | PWR | power supply indicator |
| 20 | IR Receiver | | To receive signal from remote controller |

2.1.2. 8-CH Front Panel



| No. | Key/Indicator | Marks | Functions |
|-----|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1 | SEARCH |  | Enter system pop-up (short cut) menu bar |
| 2 | CH- |  | Switch to previous channel |
| 3 | CH+ |  | Switch to next channel |
| 4 | ALL CH |  | Switch to 4/8 pictures display |
| 5 | MUTE |  | Audio mute key |
| 6 | REC |  | Start manual recording |
| 7 | REW |  | Move leftward / Rewind(it also can be used for switching OSD control panel) |
| 8 | PAUSE |  | Pause / play frame by frame |
| 9 | PLAY |  | Enter into playback mode / Play button |
| 10 | FWD |  | Move rightward / Play forward |
| 11 | STOP |  | Stop Playback / stop manual recording |
| 12 | LEFT |  | Move leftward / Rewind |
| 13 | UP |  | Enter into main menu or exit menu |
| 14 | Down |  | Move down |
| 15 | RIGHT |  | Move rightward / Play forward |
| 16 | SEL/PTZ | SEL/PTZ | Enter system pop-up menu bar / edit button / enter PTZ mode |
| 17 | MENU/ESC | MENU/ESC | Enter/exit system menu |
| 18 | HDD indicator | HDD | Continuous flicker indicates HDD is being accessed |
| 19 | Power indicator | PWR | Green light indicates power supply status |
| 20 | IR Receiver | | To receive signal from remote controller |



Attention:
The default OSD is on VGA output.



Note:
To change OSD Output default, please refer to user's manual. (Section 4.11 Main Menu Setup)



Lost OSD control menu on screen?

Solution 1
Remote control
Press the button "0"

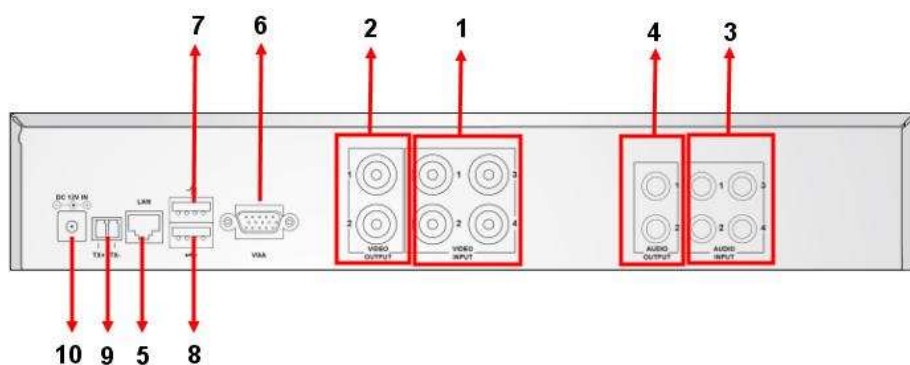


Solution 2
Front panel
Press "SEL" button for 5 seconds.

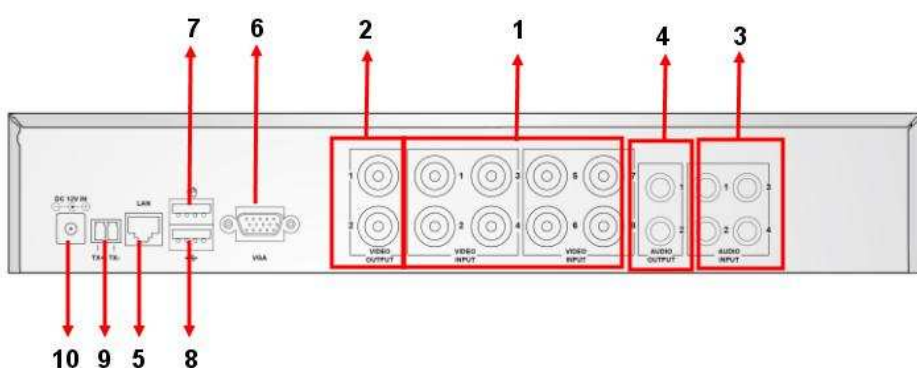


2.2. Rear Panel

4-CH DVR

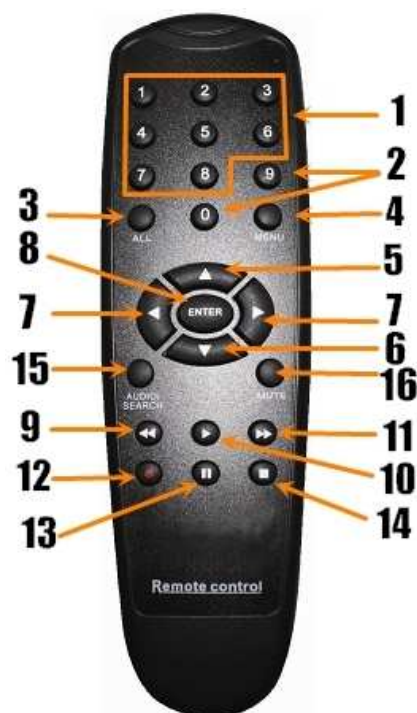


8-CH DVR



| No. | Connector | Functions |
|-----|--------------|----------------------------------------------------------------------------------------------|
| 1. | Video input | 4CH:Connect CH1-4 video input device (BNC) 8CH:Connect CH1-8 video input device (BNC) |
| 2. | Video output | Connect monitor output (BNC) |
| 3. | Audio Input | 4CH DVR: 4CH audio input (RCA) 8CH DVR: 4CH audio input (RCA) |
| 4. | Audio Output | 4CH DVR: 2CH output(RCA) 8CH DVR: 2CH output(RCA) |
| 5. | Ethernet | Connect LAN, Ethernet (RJ45) |
| 6. | VGA output | Connect to VGA monitor |
| 7. | USB Mouse | Connect USB mouse |
| 8. | USB device | Connect USB device (Flash Drive, Hard Drive and Recorder etc) |
| 9. | RS-485 | RS485 interface |
| 10. | Power | Connect power supply - DC12V 3A |

2.3. Remote Control



| | | |
|----|-------|-----------------------------------------------------------------------------|
| 1 | 1-8 | Channel Select 1-8 ; Numeric key |
| 2 | 9、0 | Numeric Key(The numeric key"0" can be used for switching OSD control panel) |
| 3 | ALL | Display all Channel |
| 4 | Menu | Enter/Exit Main Menu |
| 5 | ▲ | Up Key |
| 6 | ▼ | Down Key |
| 7 | ◀ ▶ | Left / Right Key |
| 8 | SEL | Select Key/ Edit Key |
| 9 | ◀◀ | Rewind key |
| 10 | ▶ | Play Key, Enter to recording search menu |
| 11 | ▶▶ | Forward Key |
| 12 | ● | Manual Recording |
| 13 | | Pause / Frame Play |
| 14 | ■ | Stop manual recording; Stop Playback |
| 15 | Audio | Undefined |
| 16 | Mute | Undefined |

Mouse Operation

You can use a mouse instead of front panel keys or remote control to navigate the operation of your DVR

| | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Left click | In OSD menu, click left button to select & edit |
| Right click | In live display mode, clicking right key will display pop-up menu bar |
| | In Main menu or sub menu mode, clicking right key will exit current menu. |
| Double-click Left button of Mouse | double-click the live image of any channel for full screen display; by double-clicking again, the display will return to display all cameras |
| Use mouse to drag a line | On motion mode, this function will select motion area; On [Color Setup] menu mode, it will adjust color control bar and volume control bar. |

Virtual Keyboard (Mouse)

When using the mouse, you can input certain values using the onscreen virtual keyboard.

You will need to use the Virtual Keyboard when entering your User ID and Password.

To use the Virtual Keyboard:



1. Click on an option or field, such as the User ID and Password fields.
2. Click 0~9 to key-in the desired digit.
3. Click 123 to switch between numerals, upper and lowercase letters, and other characters (only for certain options)
4. Click ← to Backspace/Delete.
NOTE: The buttons will turn from orange to white when you select the button with the mouse cursor.
5. Click ↵ to enter/confirm and close the Virtual Keyboard.

Virtual Keyboard (Remote Control)

*Press “SEL” button to enter the column.

*Press “SEL” button again to call out the virtual keyboard.



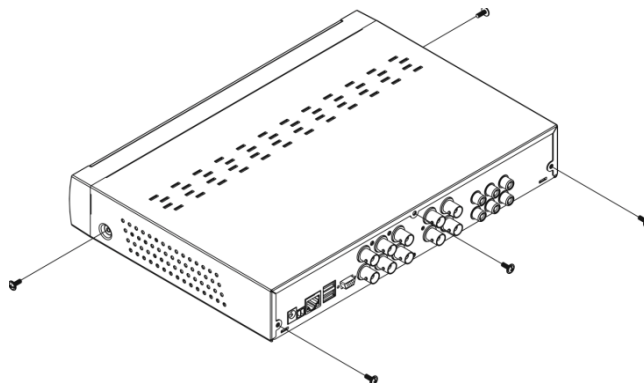
Chapter 3. Installation

3.1. Installation(Hard Drive)

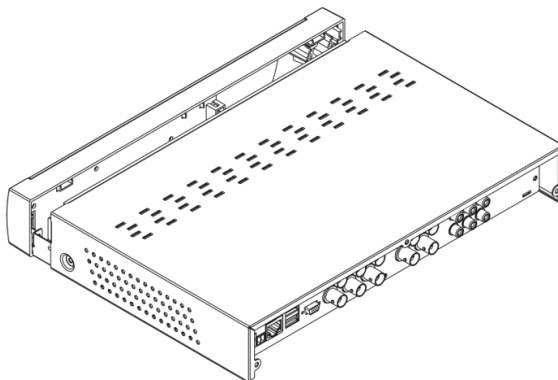


DO NOT install or remove hard drive while DVR is running!

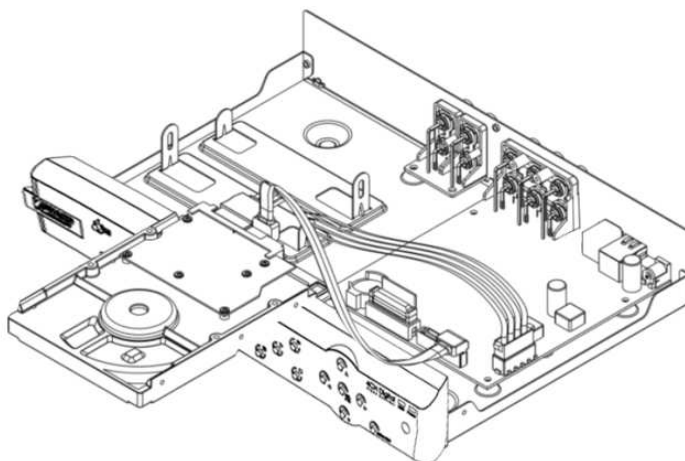
Step 1. Loosen the screws in the left and right sides.



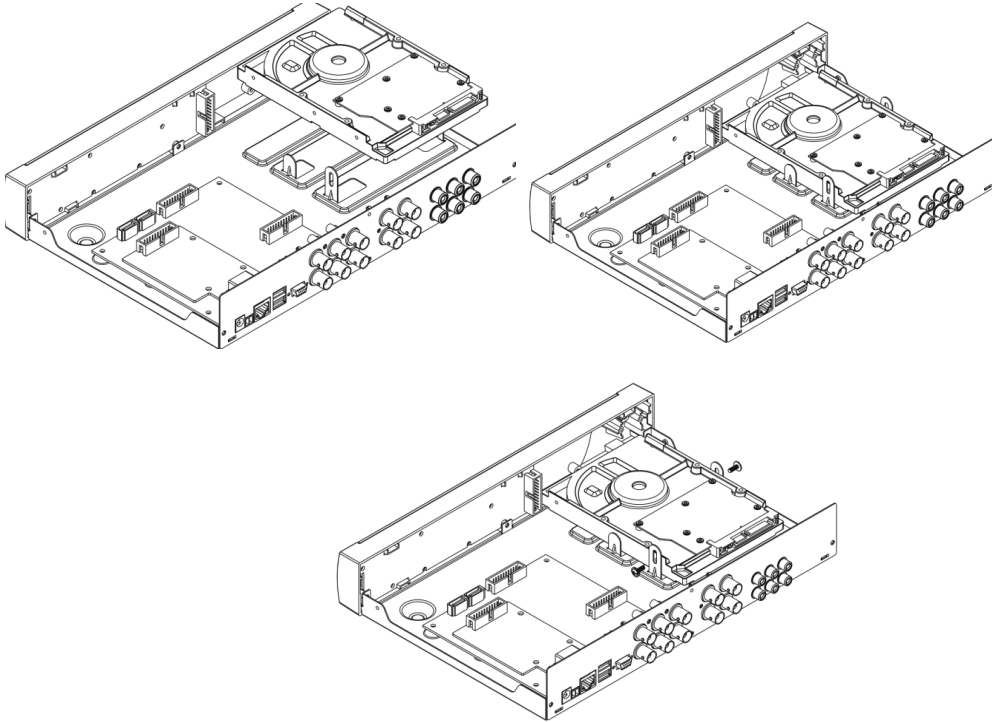
Step 2. Remove the cover by pushing back and lift it up, slightly.



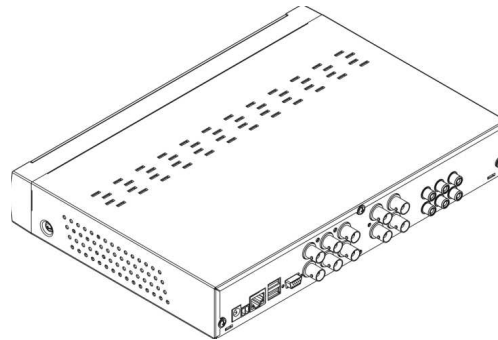
Step 3. Connect SATA to H.D.D. (data cord and power cable).



Step 4. Install HDD on the bracket, fixed with screws firmly.



Step 5. Check if the connectors are properly connected and there is no loosen cables, and then install cover as well as screws .



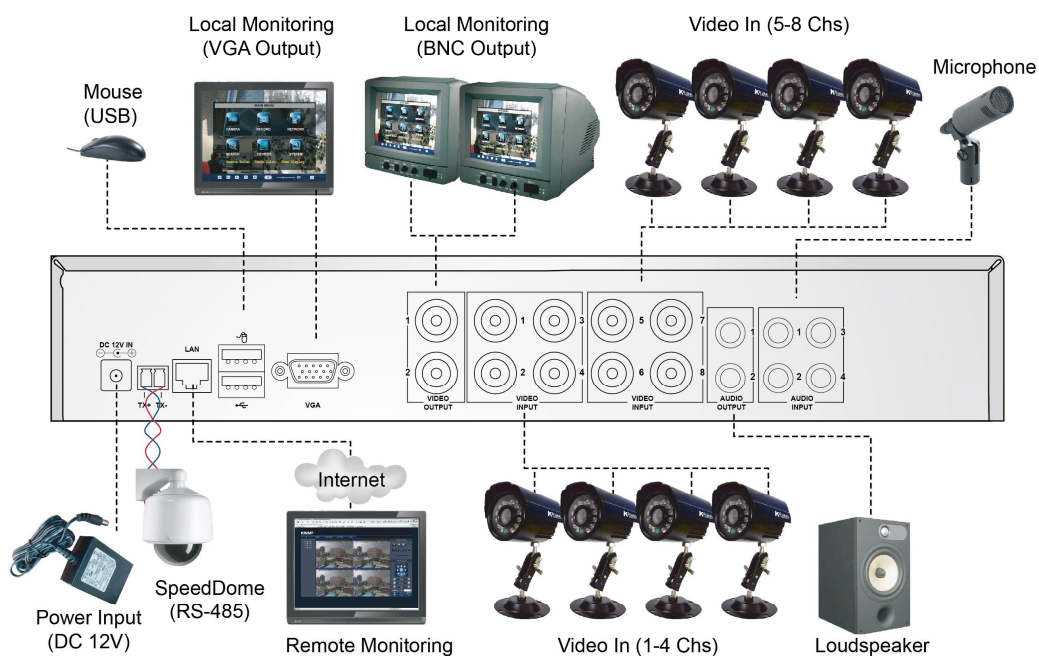
3.2. Camera and Monitor Connection

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector or if the camera is a PTZ speed dome, you could connect RS485 connector.

3.3. Power Supply Connection

Please only use the power adapter supplied with the DVR.

3.4. Connection Diagram:



Chapter 4. OSD Display

4.1. Structure of OSD Display(4CH)



| Device Management | | | SYSTEM | | |
|-------------------|--------|------|-----------|-------------|----------|
| | | | | | |
| HDD | Alarm | PTZ | TIME/DATE | Pasword | VIDEO |
| | | | | | |
| MOBILE | MOTION | EXIT | Language | Information | Maintain |

4.1.1. Structure of OSD Display(8CH)



| Device Management | | |
|-------------------|--------|------|
| | | |
| HDD | Alarm | PTZ |
| | | |
| MOBILE | MOTION | EXIT |

| SYSTEM | | |
|-----------|-------------|----------|
| | | |
| TIME/DATE | Pasword | VIDEO |
| | | |
| Language | Information | Maintain |

4.2. The Symbol of Main Screen(Recording Alarm)



The symbol will display in main screen:

| Symbol/icon | Functions |
|-------------|--------------------------|
| | Motion |
| | HDD loss, HDD space full |
| | The video is recording |
| Video Loss | Video Loss |



When DVR is in recording mode, icon or icon will appear on the screen. But when there is icons on the screen it indicates a motion alarm was triggered. When icon appears on the screen, that mean a hard drive alarm has occurred.

Attention:
The default OSD is on VGA output.

Note:
To change OSD Output default, please refer to user's manual. (Section 4.11 Main Menu Setup)

Lost OSD control menu on screen?

Solution 1
Remote control
Press the button "0"

Solution 2
Front panel
Press "◀" button for 5 seconds.

4.3. Pop-out menu options

4.3.1. Menu Lock

For your system security, the system has a special function to protect your OSD operation.

Step 1. Enable Password and key-in password/user name from system.



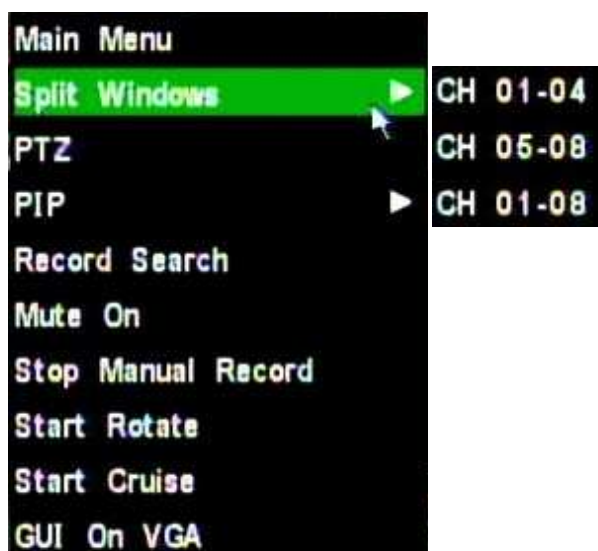
Step2. Click "Lock" button, and then the OSD was locked.



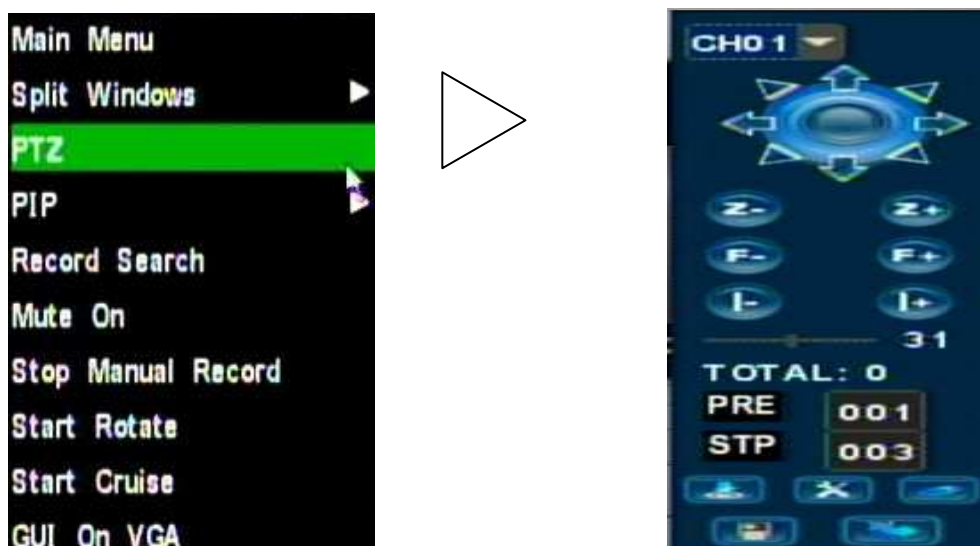
4.3.2. Split Windows (For 8 CH Only)












There are 3 modes of split windows:


1. CH 1-4
2. CH 5-8
3. CH 1-8



4.3.3. PTZ Control



| All Functions | | |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  | Pointer Auto Pan | To select the direction of PTZ. The middle circle is for auto pan of PTZ. |
|  | Zoom in/zoom out | |
|  | Focus | |
|  | Iris | |
|  | Speed | |
|  | Channel select | For selecting the channels of PTZ camera. |
|  | EXIT | To back to previous page or exit. |
|  | GOTO PRESET POINT | Allow you to go to a specific preset point. |
|  | SET | Allow you set a set of specific preset points of a PTZ camera. Also it can Adjust the camera in a fix point. |
| Note: Up to 255 preset bits for the DVR can be stored. However, actual preset quantity differs depending on PTZ performance. | | |
|  | CLEAR | Allow you to delete the selected preset. |
|  | SAVE | Save the changed and the preset point. |
| Total | Set up pre-set bit quantity | |
| Pre | It indicates the starting point cruised. System default point is 01. | |
| STP | Sets the stop time at each point | |

 **If you would like to use the function of PTZ herein , you have to set the parameter of PTZ first.**

For more information of PTZ , please refer to section 4.9.

4.3.3.1. Cruise(PTZ)

This function allows to start cruise of PTZ camera.



4.3.4. PIP Mode



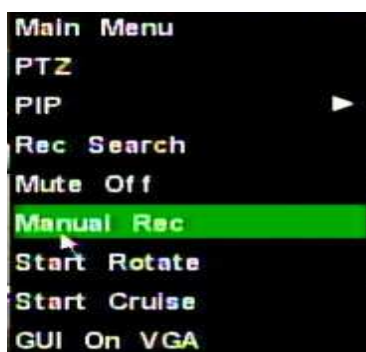
4.3.5. Search

You could enter into **[Record Search]** menu from Pop-up menu conveniently and quickly and search/playback the record histories.



For more information of record search , please refer to section 4.7.

4.3.6. Record(Manual)



START MANUAL RECORD



STOP MANUAL RECORD

4.3.7. Start Rotate(SEQ/CHANNEL AUTO SWITCHING)

This function allows you to switch channels, automatically.



4.3.8. GUI output selection

This function allows you to select the GUI output between 2 monitors (VGA or BNC).



4.4. Main Menu Setup(Display)

You can set up whether each channel can be previewed or not under Live display and/or record mode, enable live time or not under live screen and set up record time or not on the record history.

Also, you can key-in the title for each channel.

You can adjust image brightness, saturation, contrast and hue parameters of each channel after entering into **[Color]** menu.

Step 1. Click the video screen or Press “Menu” button on the front panel, the main menu will display.

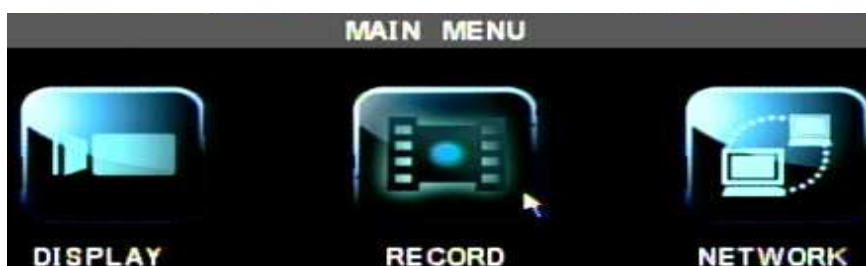


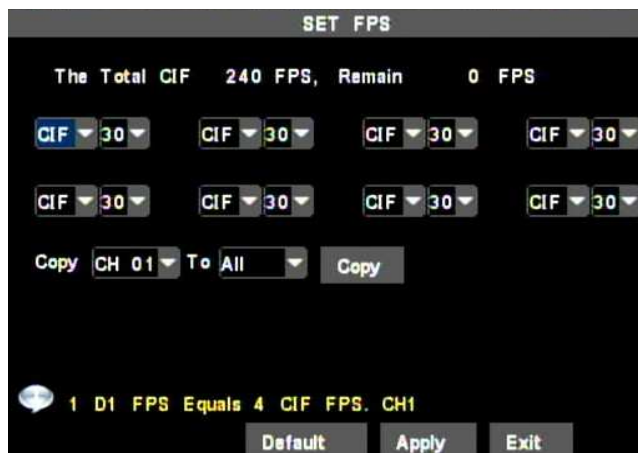
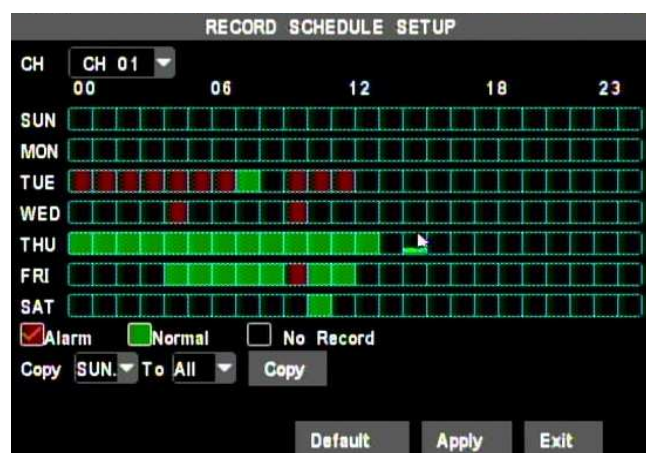
Press ▲, ▼, ◀, ▶ keys on front panel to move the cursor, then press “SEL” key to enter selected item.

Or left click mouse to select and enter menu.

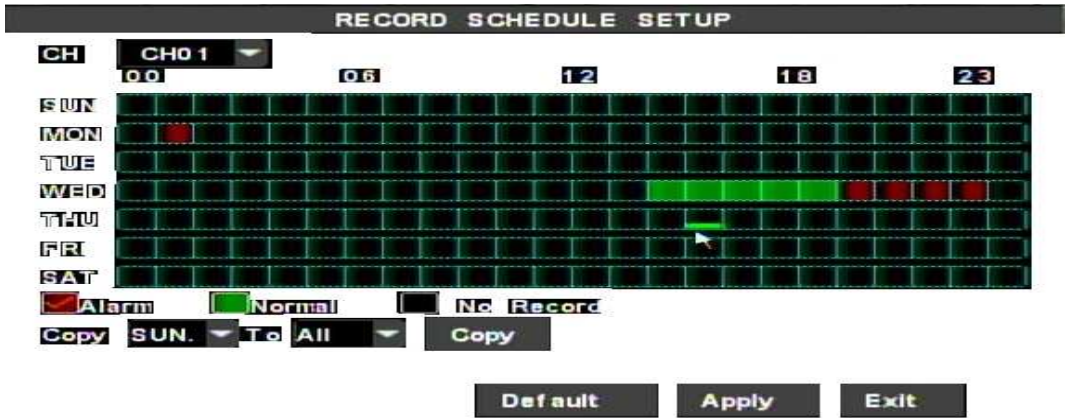


Press “ESC” key or right click mouse, to return to previous window.



4.5. Main Menu Setup(Record)





| All Functions | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Record setup | Allows you set up record status (Enable/Disable) of each channel. |
| Quality | Included 3 options – Best, Good and Normal. |
| Frame rate setup | Included 2 options – Fixed and Manual . Click on 【Manual】 option and then click 【Frame rate setup】 button, you are able to set the frame rate for each channel. |
| Audio | Allows you turn audio on/off. |
| Mode | Allow you select record modes, including Always and Scheduled. To record 24 hours a day set the 【Mode】 to Always. To record on motion or a set schedule, select the 【Schedule】 option. |
| Pack time | The time for recorded video which was packed in 1 video file. (15, 30, 45 and 60 min) |
| Copy | Copy the setting to all channels or one specified channel. |


| RECORD SCHEDULE SETUP | |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | |
|  | To select channels. |
|  | Use mouse to click the time & date which you would like to set, there's 3 types of recording : Alarm record: Red / Normal Record: green /No record: clear |

| | |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|
|  | Copy the setting to all channels or one specified channel. |
|  | Click "Apply" button to save changed. |

Frame rate setup



In this option, you can set the recording frame rate, if the frame rate which you set over system limitation, the system will inform you that your frame rate can't be accepted.

| | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
|  | Copy the setting to all channels or one specified channel. |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|

The information as below:



4.6. Main Menu Setup(Network)



Port for DVR connection →

Internet Type →

Http port →

| NETWORK SETUP | |
|---------------|-----------------|
| Type | Static IP |
| Media Port | 09000 |
| WEB Port | 00080 |
| IP ADDR | 192.168.003.103 |
| Netmask | 255.255.255.000 |
| Gateway | 192.168.003.254 |
| DNS Server1 | 168.095.001.001 |
| DNS Server2 | 192.169.002.100 |
| UPNP Server | Disable |
| DDNS Setup | |
| Default | |
| Apply | |
| Exit | |

| NETWORK SETUP | |
|---------------|--------------------|
| Type | PPPOE |
| Media Port | 09000 |
| WEB Port | 00080 |
| Username | 72416564@hinet.net |
| Password | ***** |
| DNS Server1 | 168.095.001.001 |
| DNS Server2 | 192.169.002.100 |
| UPNP Server | Disable |
| DDNS Setup | |
| Default | |
| Apply | |
| Exit | |

| NETWORK SETUP | |
|---------------|-------|
| Type | DHCP |
| Media Port | 09000 |
| WEB Port | 00080 |
| UPNP Server | |
| Disable | |
| DDNS Setup | |
| Default | |
| Apply | |
| Exit | |

DDNS SETUP

DDNS: Enable

Server: KGUARD.ORG

Host name: DYNDNS

KGUARD.ORG

DDNS SETUP

DDNS: Enable

Server: KGUARD.ORG

Host name: kgar.kguard.org

User name: kgar33@gmail.com

Password: *****

Description:

Because of DVR can support viewing the video via network remotely, hence you can control the DVR remotely, including, monitoring, recording, playing back or making backup.

There are 4 types of network setup in DVR:

| All Functions | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DHCP | The Dynamic Host Configuration Protocol (DHCP) is an auto configuration protocol used on IP networks. |
| PPPoE | The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames. |
| Static IP | It was defined as “permanent IP address” which remains in a single computer over an extended period of time. |
| DDNS(Dynamic DNS) | Dynamic DNS is a method, protocol, or network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a domain name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information stored in DNS. |



If you have any question of internet, please contact your local ISP (Internet Service Provider).

*For applying free DDNS, please refer to Appendix D.



The system with 2 DNS server input options, DDNS Server 1 for main server & DDNS Server 2 for sub server.

Please contact with your ISP provider local, to get the correct DDNS Server parameter.



If your DVR is connected with Router, please follow the customized support to find

out the most popular router, below :

Port Forwarding guide:

To access the DVR from a remote site, you need to forward ports 80 and 9000 from the router which is connected to DVR.

- Step 1.** Connect router to DVR and power on DVR.
- Step 2.** Go to website: <http://portforward.com/kguard/>
- Step 3.** Click on " KGuard KG-SHA DVRs (for DVRs that start with KG-SHA) "



Welcome KGuard Customers.

PortForward.com is proud to offer help setting up port forwarding for your KGuard DVR. We have guides customized to support your DVR and your router.

After choosing your DVR from the list below, you will be taken to a list of routers. Pick your router from the list, or the closest match, and you will see instructions specific to both your DVR and your router.

Please choose your DVR from the list below

- KGuard **KG-SH** DVRs (for DVRs that start with KG-SH)
- KGuard **KG-SHA** DVRs (for DVRs that start with KG-SHA)
- KGuard **KG-CMS3000** Software
- KGuard **KG-NVR300** Software

- Step 4.** Click on the model of router which connected to your DVR.

Your external IP is

2wire

1000hg
1000hw
1000s
1000sw
1070-B
1700hw
1701HG
1800hg
1800hw
2071
2071-A
2700hg
2700HG-B
2700HG-D
2700HG-D_vQT04-6.1.5.48
2700HG-E
2700HG-S
2700HG-V2
2701HG
2701HG-B
2701HG-D
2701HG-G
2701HG-S
2701HG-T
2701HGV-B
2701HGV-E
2701HGV-W
3800HGV-B

Dell

TrueMobile-2300
TrueMobile-2350
TrueMobile1184v2

Digicom
Michelangelo-Home-54
Michelangelo-LAN-CX
Michelangelo WAVE
Michelangelo Wave-8E4371

Digiconnect

WIC328

Digitus

DN-1100-4-4
DN-11004-N2
DN-11004-O
DN7039-A
HP-400S

Dirac Way

DW600E

Dlink

Leviton

47611-GT4
Leviton_10-100

LG

LAM400
LWG5400R

Lingo

Primus-iAN-02ex

Link-Max

LM341

LinkPro

WL-C54AAR

LinksKey

LKR-604

Linksys

AC241
AG300
AM200

Safecom

SAMR-4110
SAMR-4114
SART2-4112
SART2-4115
SBRU-10100
SWAMRU-54108
SWART2-54125

Sagem

2804STC
Fast-2404
FAST-3001
Fast1500WG
Fast2504
Fast3302
Livebox-7359
Livebox-Fast-3202
Livebox-Fast3202
LiveboxTP-Fast3202

Scientific-Atlanta

WebSTAR-DPR2320
WebSTAR-EPC2434

ShenZhen ICC Tech

ICC-10011

Step 5. Click on [“click here to skip this advertisement”](#) in order to get the free instruction of port forwarding (In the upper corner of the screen).

After you enter into advertisement page please click on:

Click here to skip this advertisement...

When you go to the website: www.portforward.com, you will see an advertisement for setup port forwarding of router.

You **DO NOT** need to purchase this software. Above the advertisement, there is a link to skip the advertisement, if you click on the link it will take you to the instructions which are **free**. You can purchase the software if you want to, but you do not need to pay to get the port forwarding instructions.

Internet Gaming • Network Techs • Home Networks • You Need

PFCONFIG
PORT FORWARDING MADE EASY
Easy Setup of Your Router's Port Forwards!

Guaranteed to work! If PFConfig does not setup your forwards, simply contact our support department and we'll do it for you.

Take the frustration out of forwarding your router ports with PFConfig. Any application requiring port forwarding can be set up

\$29.95

100% Guaranteed or we'll do it for you!

Purchase on our secure server

Buy It Now

Purchase via PayPal

Buy Now

Click here to skip this advertisement...

FREE

Visa MasterCard PayPal

Step 6. After you finished port forwarding process, you can check the port to see if it is open or not.

Step 7. Go to website: <http://www.canyouseeme.org/>

CanYouSeeMe.org - Open Port Check Tool

This page will serve as a free utility for remotely verifying a port is open or closed. It will be useful for users who wish to check to see if a server is running or a firewall or ISP is blocking certain ports.

Your IP:

What Port?

Common Ports

| | |
|--------------------|------|
| FTP | 21 |
| SSH | 22 |
| Telnet | 23 |
| SMTP | 25 |
| Web | 80 |
| Pop 3 | 110 |
| IMAP | 143 |
| Other Applications | |
| Remote Desktop | 3389 |
| PC Anywhere | 5631 |

Step 8. key-in the port number which you just forwarded.

*For example: port 80.

Step 9. Click on button to see if the port is open or not.

CanYouSeeMe.org - Open Port Check Tool

This page will serve as a free utility for remotely verifying a port is open or closed. It will be useful for users who wish to check to see if a server is running or a firewall or ISP is blocking certain ports.

Your IP:

What Port?

Common Ports

| | |
|--------------------|------|
| FTP | 21 |
| SSH | 22 |
| Telnet | 23 |
| SMTP | 25 |
| Web | 80 |
| Pop 3 | 110 |
| IMAP | 143 |
| Other Applications | |
| Remote Desktop | 3389 |
| PC Anywhere | 5631 |

*If you forwarded the port succeed , the web page will display:

CanYouSeeMe.org - Open Port Check Tool

This page will serve as a free utility for remotely verifying a port is open or closed. It will be useful for users who wish to check to see if a server is running or a firewall or ISP is blocking certain ports.

Your IP:
What Port?

| Common Ports | |
|--------------------|------|
| FTP | 21 |
| SSH | 22 |
| Telnet | 23 |
| SMTP | 25 |
| Web | 80 |
| Pop 3 | 110 |
| IMAP | 143 |
| Other Applications | |
| Remote Desktop | 3389 |
| PC Anywhere | 5631 |

Open port success

Success: I can see your service on on port (80)
 Your ISP is not blocking port 80

*If you forwarded the port failed , the web page will display:

CanYouSeeMe.org - Open Port Check Tool

This page will serve as a free utility for remotely verifying a port is open or closed. It will be useful for users who wish to check to see if a server is running or a firewall or ISP is blocking certain ports.

Your IP:
What Port?

| Common Ports | |
|--------------------|------|
| FTP | 21 |
| SSH | 22 |
| Telnet | 23 |
| SMTP | 25 |
| Web | 80 |
| Pop 3 | 110 |
| IMAP | 143 |
| Other Applications | |
| Remote Desktop | 3389 |
| PC Anywhere | 5631 |

Open port failed

Error: I could **not** see your service on on port (9000)
 Reason: Connection timed out

 **If you cannot use the default HTTP port 80 or 9000, due to the reason of port was occupied by other program, or it is being blocked by your service provider, you can use another port instead of. If you do so then you need to forward the IP address of the router to the other port, change the port in the DVR NETWORK settings, and you need to add the port number after the IP address. For example, if you set the HTTP port as 85, you need to enter the IP address as 192.168.3.103:85.**

4.7. Main Menu Setup(Search/Playback)



*Click "Search" button first.
 *Double click the specified date & time which you need to playback and then click "playback" button.
 *Click "Detail Files"



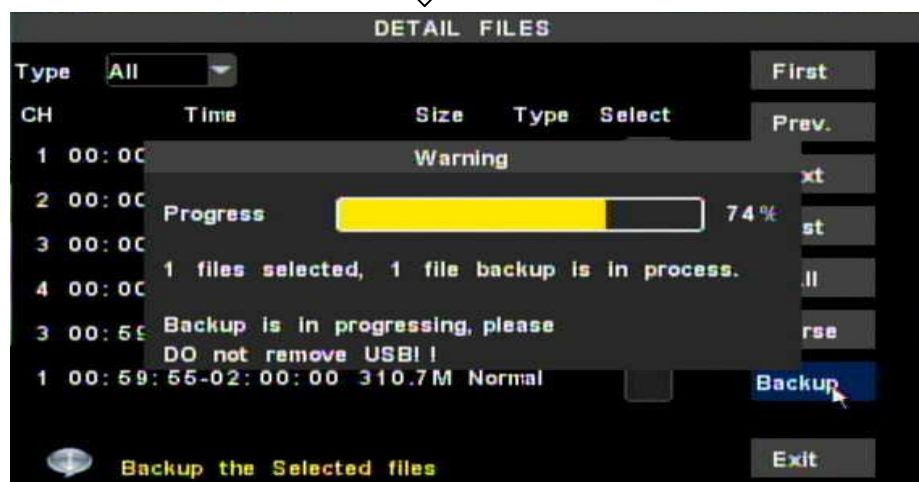
*Playback image



*Choose the type of video and then
 ✓ check the file
 which you would like to backup.



*Insert U.S.B device
 and then
 click "Backup" button.



4.7.1. Main Menu Setup(Search/Log/Export)

*You can export the video information from log(by text).



LOG SEARCH

Log Type

Start Time

End Time


*Click on “**search**” button and specified the log type in order to search the video information.

LOG LIST

| Type | Content | Time | Frame | Record |
|-------|---------|----------|----------|--------|
| ALARM | MD | 11-02-11 | 00:12:00 | YES |
| ALARM | MD | 11-02-11 | 00:27:00 | NO |
| ALARM | MD | 11-02-11 | 00:27:00 | NO |
| ALARM | MD | 11-02-11 | 00:34:00 | YES |
| ALARM | MD | 11-02-11 | 00:51:00 | NO |
| ALARM | MD | 11-02-11 | 00:51:00 | YES |

*Click on “**Export**” button to export video information.

*Before performing Export, please insert U.S.B Device.

| All Functions | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Channel | Allows you select the channel(s) you would like to search. |
| Time Search | In the Video Search screen, user can search for a specific date and time for a recording and view it in Playback mode. This is useful for hunting a specific recording of an incident if you know the date and time it occurred. |
| Date Search | In the Video Search screen, user can search for all the recordings in a specific date. To execute a video search, highlight and select the date numeric field, and then click a detailed time quantum of the specific date, system will start the playback from the first recoding of the time quantum. |
| Playback Mode | You can use the Playback Control bar to operate the Fast Forward (X2, X4 and X8), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame, Rewind(X2, X4 and X8). When ending playback, DVR will return back to previous menu. |
| File List | Click "File list" button to enter into the "File List" screen, the video recordings for the time quantum will appear in the screen. And you also can filter the recordings you want to view by the Channel or recording mode based on date/time search. |
| LAST (Last page) | Click on "Last page" button, to go to the Last page. |
| ALL (Select All) | Allows you to select all the events on the current page. |
| INVERSE (Select Invert) | Allows you to select other events on the current page except those you have currently selected. |
| Backup | In the "File List" mode, if you wish to backup records, please check the "Select" check-boxes which corresponds to the recording and click "Backup" button to enter into the window. |
|  <ol style="list-style-type: none"> 1. Backup file will be saved as H264 format; you can playback the recorded files using the Player program that comes with the DVR or through the IE Browser. 2. Please make sure you have connected backup device well, such as USB and DVD, before backup. | |
| First | Click on "First" button, back to first page. |
| PREV (Previous page) | Click on "Previous page" button will back to previous page(except the first page). |
| NEXT (Next page) | Click on "Next page" button will take you to the page after the one you are currently viewing (except the last page). |

| Log Search | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| In the Record Search screen, Click "Log Search" to pop up the Log search screen. | Click on "Search" button on the bottom of the interface to search all the logs you need. |
| Export | |
| User can export all the logs which have been searched to U.S.B device and save it as *.TXT format . Before exporting the logs, please make sure you have connected the U.S.B device well. After Log export success, please click "OK" button. | |

4.8. Main Menu Setup (Device Management)

4.8.1. H.D.D & ALARM Setup





When DVR is connected to a HDD, the system will detect H.D.D automatically, when the new H.D.D was installed , system will ask for H.D.D formatting.

The functions of" H.D.D Setup"

NO : The number of HDD

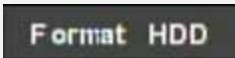
TOTAL SPACE:

The capacity of Hard Drive or free space on the Hard Drive.

TIME: Based on current image detail/quality and frame rate, system will display the record time that you have left on the Hard Drive.

OVERWRITE:

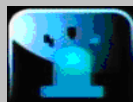
Select "on" the system will automatically overwrite the oldest recordings once the hard drive is full. select "off", recording will stop once the hard drive is full.

HDD FORMAT: You use this option to format the hard drive, you can not record files to the hard drive until it has been formatted. Click  button to start formatting.

USB FORMAT: Use this option to format USB devices.

Note: It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. So, it is strongly recommended that you do format the HDD before start the first record

Alarm Setup



ALARM CONFIGURATION

| | | | |
|------------|-------------------------------------|-------------------------------------|--------------------------|
| Buzzer | OFF | E-mail | Full Screen |
| MD Alarm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| HDD Loss | <input checked="" type="checkbox"/> | | |
| HDD Space | <input checked="" type="checkbox"/> | | |
| Video Loss | <input checked="" type="checkbox"/> | | |
| Alarm Time | 1 Min | | |
| Pre-Record | Enable | | |

EMAIL SETUP

| | |
|-------------|-----------------------------------------------------------------------------|
| Email | Enable |
| SSL | <input type="checkbox"/> Disable <input checked="" type="checkbox"/> Enable |
| SMTP Port | 00587 |
| SMTP Server | smtp.gmail.com |
| Sender | cutesm@gmail.com |
| Sender PWD | ***** |
| Receiver | antonio_chang@kguard.com.tw |
| Interval | 1 Min |

The functions of "Alarm Setup"

Channel: the option allows you select one channel you want.

HDD Loss:

When the "Buzzer" is in the "ON" position and the system can't find the HDD or HDD is not be formatted, the symbol "H" will appear on the screen with buzzer sounded.

HDD Space:

When the "Buzzer" is in the "ON" position and the HDD out of storage space, the buzzer will be activated.

If the Buzzer is set to "OFF" position, the buzzer will not be activated.

Video Loss: When setting [Buzzer] to ON and when a camera has been disconnected. "Video Loss" symbol will also appear on the screen with buzzer sound. Set to OFF, you will only see the "Video Loss" appear but no sound.

Alarm Manage:

Alarm Output: you can set how long the external sensor alarm will last when motion is detected (off, 10s, 20s, 40s, 60s);

Buzzer time: you can set how long the buzzer will sound when motion is detected (0s, 10s, 20, 40s, 60s);

Alarm duration time: you can set how long alarm record will last when alarm ends (0s, 30s, 1minute, 2minute, 5minute);

Pre-record time: you can set how long record will last before alarm occurs (Off, on).

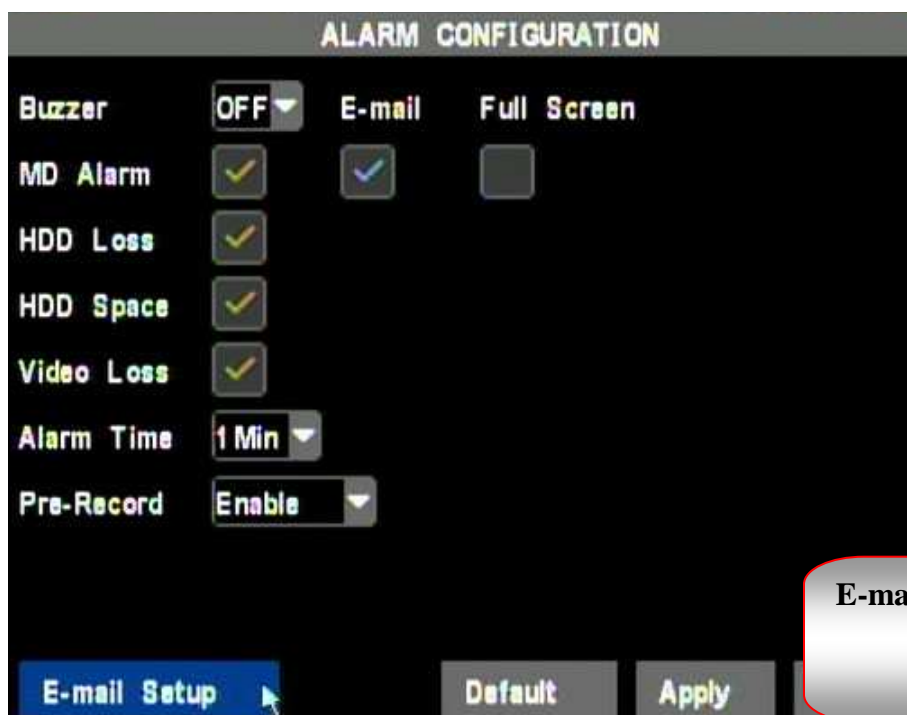
Full screen Alarm: The function is defaulted in "OFF" position. When the motion detection or external alarm is triggered, the corresponding channel will be displayed on the full screen mode.

Email: The option allows you set the alarm images to send txt message to a specified email. You could freely select buzzer alarm or not and alarm output time for all the alarm types, and for the MD alarm and I/O status alarm you could set email and full screen reminder.

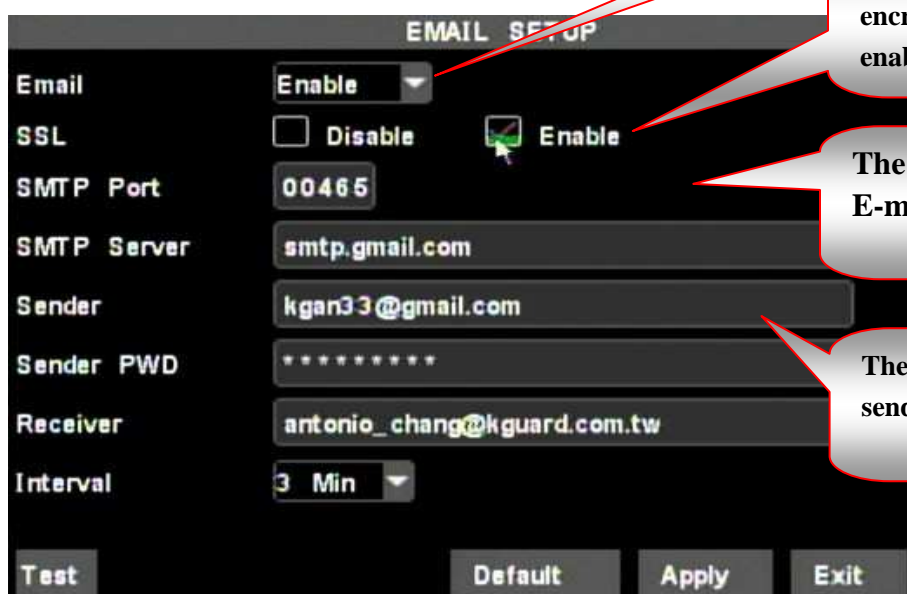
| Alarm Type | Function |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Loss | Sends alarm when DVR can't receive video signal (such as camera damage, cable broken or damaged or power supply malfunction). |
| Motion Detection | When an object moves into motion detection area, alarm will be triggered. You can adjust sensitivity level to suit the needs of your actual application environment. |
| HDD loss | When Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, and free space is not enough, an alarm will be triggered. |
| HDD space | When the HDD is full, the alarm will be triggered. |

4.8.2. Email Alarm Notification

Because of the type and the ISP service company is variety worldwide, Hence, we only provide 1-2 company for an example, if you have any question of E-mail, please contact your local ISP service. Please make sure your DVR already connected to internet:





E-mail must enable.



If your E-mail have SSL encryption, you have to enable it.

The port for sending E-mail.

The information of sender and receiver.

| Functions | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Email | Enable: Open | Disable: Close |
| SSL | Enable:Open | Disable: Close |
| <div></div> <p>SSL is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password. Please confirm with your email service provider if your email server support SSL or not.</p> | | |
| SMTP Port | The Specified sender port of SMTP server(forwarding server/Host) | |
| <div></div> <p>Generally the SMTP port value is 25 ,but for SMTP port of G-mail server is 465. *if your E-mail needs to be verified by SSL, the port is going to be 465(default value), and port 25(default value) is the Email without SSL verification.</p> | | |
| SMTP server | Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. | |
| Sender | The original sender (forwarding server/Host). | |
| Sender PWD | Password of original sender | |
| Receiver | The target receiver of alarm notification (target). | |

*Press  button to check if your email operating normal.

Setting Procedures:

Step 1. Right click of the mouse, the main menu will pop-out.

Step 2. Click “Main Menu” option.



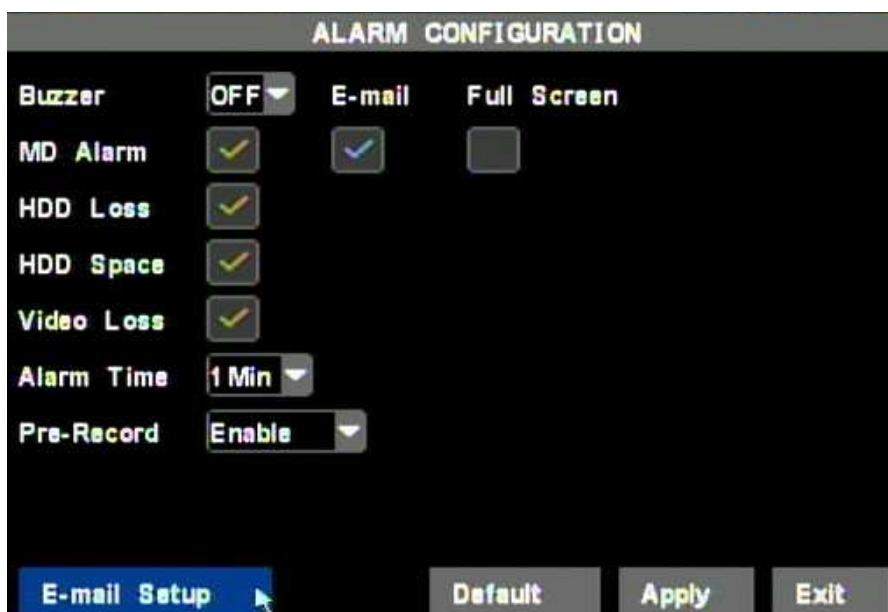
Step 3. Click "Device" icon, alarm icon will pop-out.



Step 4. Click "Alarm" icon.



Step 5. Check the "EMAIL" block, and then click "EMAIL SETUP" button.



Step 6. Select **"Enable"** for SSL, if your E-mail server needs the SSL verification.

Select **"Disable"** for SSL, if your E-mail server doesn't need the SSL verification °

Step 7. Key-in the **"SMTP Port"** for the sender.

*For example: the default value of Gmail SMTP Port is 465, and the others is 25.
If you use Gmail, you can key-in 465.



*In the email setting, we all take the Gmail for example.

Step 8. Key-in the **"SMTP Server"** of your Email which to be the sending server/host.

Step 9. Key-in the Email address in **"Sender"** column which to be the sending server/host.

Step 10. Key in the password in **"Sender PWD"** column for the server Email.

Step 11. Key-in receiver E-mail in **"Receiver"** column.

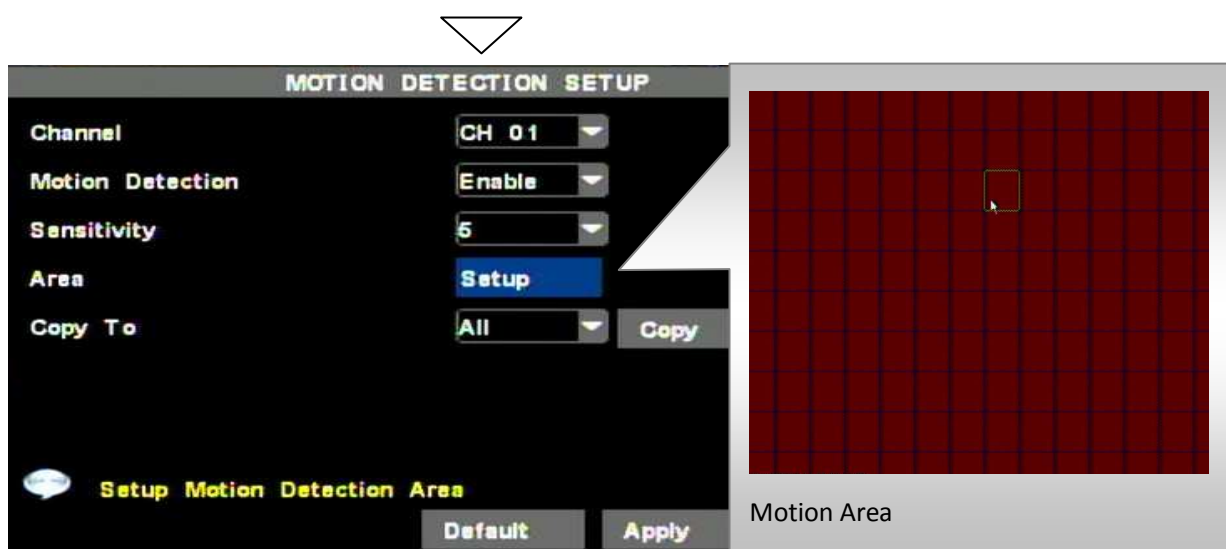
Step 12. Click **"Apply"** button.

| EMAIL SETUP | |
|-------------------------|-----------------------------------------------------------------------------|
| Email | Enable |
| SSL | <input type="checkbox"/> Disable <input checked="" type="checkbox"/> Enable |
| SMTP Port | 00465 |
| SMTP Server | smtp.gmail.com |
| Sender | kgan33@gmail.com |
| Sender PWD | ***** |
| Receiver | antonio_chang@kguard.com.tw |
| Interval | 3 Min |
| Test Default Apply Exit | |



After finished setup of Email, you have to enable the function of motion detection.

Step 13. Click “Motion” icon, and make sure motion detection is enabled.



*Before setting Gmail , please setup the motion area.

【Red: enable】 ; 【blank: disable】

*If you don't use Gmail, please skip this step.

Step 14. Login Gmail and go to “Settings→forwarding and POP/IMAP→Enable IMAP”.



This step is for Gmail only.

Settings
General Accounts and Import Labels Filters **Forwarding and POP/IMAP** Chat

Web Clips

Forwarding:
☒ Disable forwarding
☐ Forward a copy of incoming mail to and keep Gmail's copy in the Inbox
Tip: You can also forward only some of your mail by [creating a filter!](#)

POP Download:
[Learn more](#)

1. Status: POP is enabled for all mail that has arrived since 3/30/09
☐ Enable POP for **all mail** (even mail that's already been downloaded)
☒ **Enable POP for mail that arrives from now on**
☐ Disable POP

2. When messages are accessed with POP

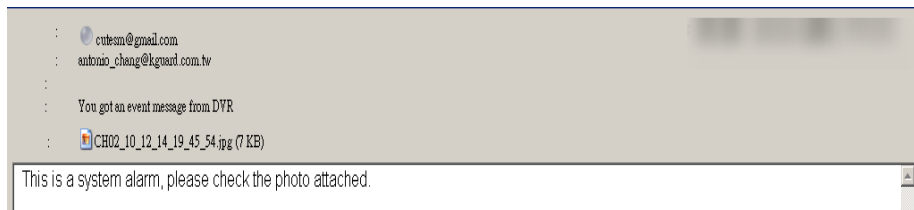
3. Configure your email client (e.g. Outlook, Eudora, Netscape Mail)
[Configuration instructions](#)

IMAP Access:
(Access Gmail from other clients using IMAP)
[Learn more](#)

1. Status: IMAP is enabled
☒ **Enable IMAP**
☐ Disable IMAP

2. Configure your email client (e.g. Outlook, Thunderbird, iPhone)
[Configuration instructions](#)

Step 15. Now, check your e-mail and see if you receive an e-mail (along with attached Photo) from DVR.



4.9. PTZ & Mobile Setup



Click



Click

PTZ Setup



PTZ SETUP

| | |
|-----------|----------|
| Channel | CH01 |
| Protocol | Pelco- D |
| Baud Rate | 9600 |
| Data BIT | 8 |
| Stop BIT | 1 |
| Parity | None |
| Cruise | OFF |
| Address | 001 |
| Copy To | All |

Copy

Default Apply Exit

The functions of " PTZ Setup"

PTZ protocol (Pelco-D or Pelco-P)

Baud Rate (1200, 2400, 4800, 9600),

Data bit (8, 7, 6, 5),

Stop bit (1, 2),

Parity (None, Odd, Even, Mark, Space),

Address Code

Cruise

*PTZ device can be activated only when a channel in connection with the PTZ camera is selected.

Mobile Setup



MOBILE

| | |
|---------------|-------|
| User Name | admin |
| User Password | ***** |
| Server Port | 18004 |

Default Apply Exit

The functions of " Mobile Setup"

User Name: indicate user name of DVR.

User password: indicate user password of DVR

Server port: Mobile monitoring port. Setting range is between 1024 and 65535.

Explanation: Please connect DVR to Internet before setting DVR port number and the server port number is not equal to network menus.



The user name and password you enter can not be empty.

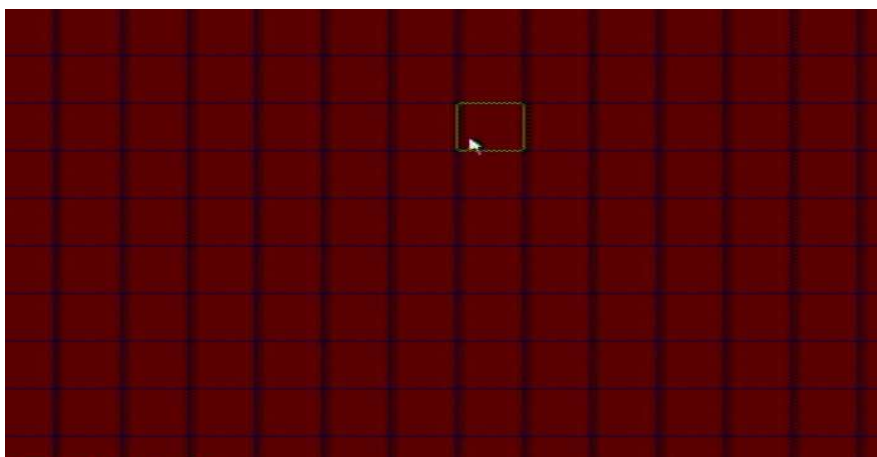
You should forward the server port number to router

***for global service center of mobile phone, please refer to appendix J.**

***if you have any question of mobile phone, please go to website and contact the local service center .**

4.10. Motion Detection Setup





Motion Detection Setup



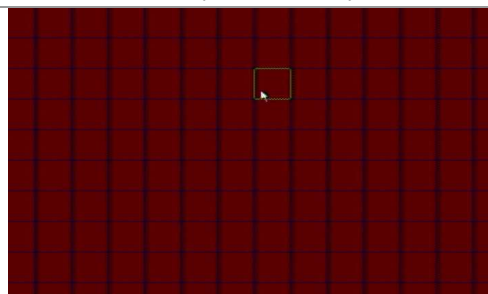
The [Motion detection] Menu has three sections, including Channel Status, Sensitivity and Motion area.

The functions of" Motion Detection Setup"

Channel : This option allow you enable motion detection on any channel.

SENSITIVITY: This option allows you to set sensitivity level of motion detection from higher to low with 8 being the most sensitive.

MD AREA: This option allows you select the area you want to be sensitive to motion.



The channel is separated into a 15X10 area. When any object moves into the motion detection area, the alarm will be triggered.

4.11. Main Menu Setup

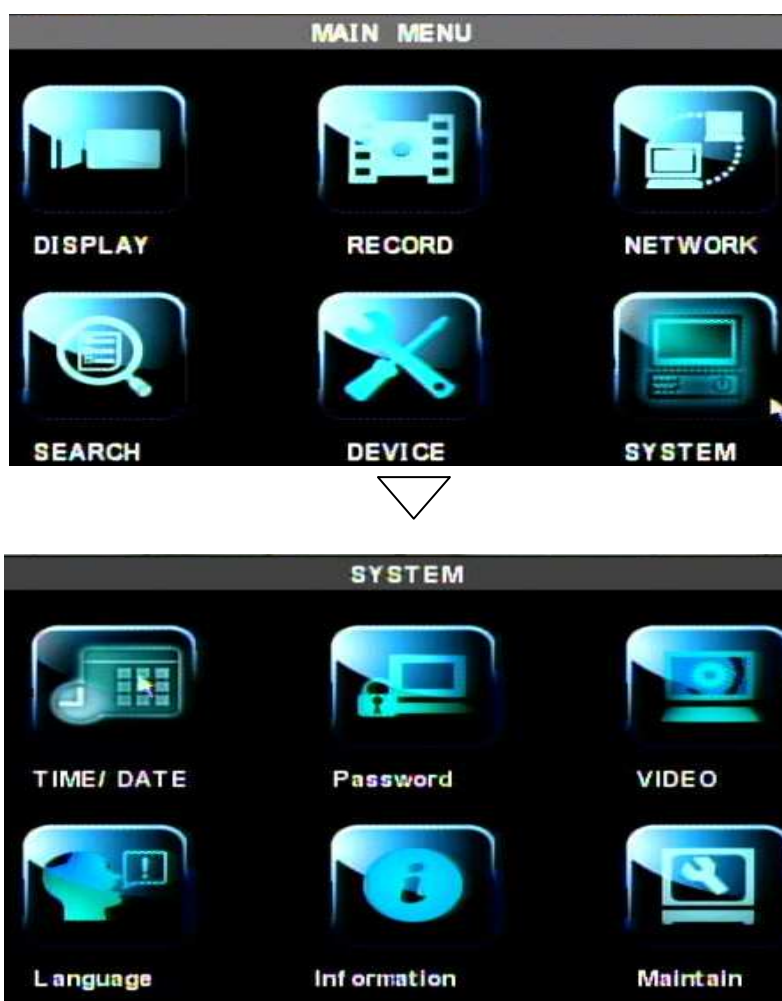
【System/Privacy Zone/Time/Password/Video/Language/Maintain】

The “System” Menu includes:

Time Setup, User Password, Audio/Video Setting, Language select, System Info. , Privacy zone and System Maintenance.

After entering into the “System” menu, you can configure the relative parameters to meet your needs.

*The OSD switching between VGA and BNC is in the section of Audio/video setting.



*There are 6 types of system setting , as below:

TIME/DATE

NTP UPDATE BUTTON

| TIME SETTING | |
|-----------------------------------------------------------------------------------------------------------------|------------------|
| Date | 02/11/2011 |
| Date Format | MM/DD/YY |
| Time | 17:31:32 |
| Time Format | 24 Hours |
| Time Zone | GMT+08:00 |
| NTP | ON |
| NTP Server | time.windows.com |
| DST Setting | DST Setting |
| <input type="button" value="UPDATE NOW"/> | |
| <input type="button" value="Default"/> <input type="button" value="Apply"/> <input type="button" value="Exit"/> | |

DST SETUP BUTTON

| TIME SETTING | |
|-----------------------------------------------------------------------------------------------------------------|------------------|
| Date | 02/11/2011 |
| Date Format | MM/DD/YY |
| Time | 14:52:41 |
| Time Format | 24 Hours |
| Time Zone | GMT+08:00 |
| NTP | OFF |
| NTP Server | time.windows.com |
| DST Setting | DST Setting |
| <input type="button" value="Default"/> <input type="button" value="Apply"/> <input type="button" value="Exit"/> | |

DST SETUP BY WEEK/DATE

| DST SETTING | |
|-----------------------------------------------------------------------------------------------------------------|------------|
| Daylight Saving Time | Disable |
| Time Offset | 1 Hour |
| Daylight Saving Time Mode | Week |
| Start Time: | End Time : |
| MAR | NOV |
| 2nd Week | 1st Week |
| SUN. | SUN. |
| 02:00:00 | 02:00:00 |
| <input type="button" value="Default"/> <input type="button" value="Apply"/> <input type="button" value="Exit"/> | |

You can modify the system date, time, date/time format, and time zone, DST (day time saving) status and NTP.

There are 2 types of DST which you can setup.

1. Setup by week
2. Setup by date

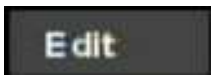

Click **"Apply"** button to save the settings.

Password

This option allows you set the device ID for the DVR and set the system password and authority. The new passwords will be available after clicking **"APPLY"** button.

When you set Password Enabled to **"ON"**, you can setup a user password and administrator password respectively.

The password must be 6 characters or over.

| Buttons | Functions |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
|  | For enabling or disabling the password. |
|  | For administrator to set the permission for other users. |

1. Click **"Password"** icon to enter the setup page of password.
2. Select the user which you would like to enable the authority.
*for administrator, you don't need to setup permission.
3. Click **"Permission"** button to set the authority for user.
4. Click **"Apply"** button to confirm the settings.
5. Click **"Edit"** button to enable the password.
6. Enable password.
7. key-in password.
8. Click **"Apply"** to enable the password.



Video/Audio Setup



Video System: allow you set Camera system (PAL, NTSC).

VGA Resolution: include 4 options - 1280×1024、1024×768、800×600 and 1440×900.

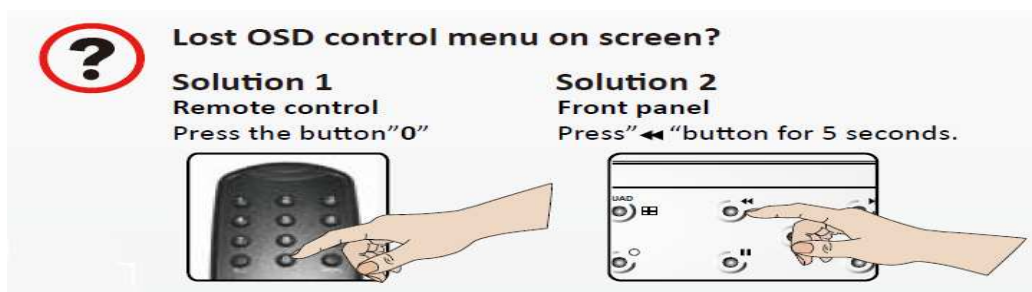
Rotate time: allow you select sequence time between from 5s and 300s.



OSD Output: Allow you to select the video output between VGA /BNC/AUTO.

The default main menu options is on VGA output.

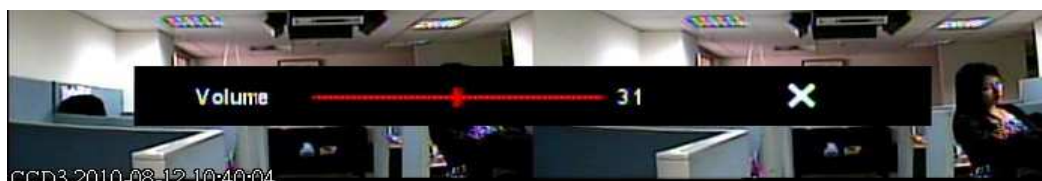
If you have trouble of finding the option of main menu, please use the following solutions:



Margin Setup



Click the **[Volume]** and/or **[Margin]** options on the right-bottom corner of the Video/Audio screen to adjust the volume and/or margin respectively.



Privacy Zone

*The total area of privacy zone is 4 areas.

Step 1. Right Click "Main menu" option.

Step 2. Click on "system" icon.

Step 3. Click on "Video" icon.

Step 4. Click on "Privacy Zone".

Step 5. Check the area which you need.

Step 6. Click on "Setup" to set the area.





Language

LANGUAGE

Language ENGLISH

Modify Completed, Reboot System!

Apply **Exit**

Enter into **[Language]** menu to select the language you want to use on the DVR and then click **[APPLY]** button. The selection will be available after system Auto restarts.

System Information

SYSTEM INFORMATION

| | |
|------------------|-------------------|
| Device Name | DVR 8CH |
| Device ID | 000000 |
| Device Type | SHA-108.V2 |
| MAC Address | 00-23-63-14-0F-A3 |
| Firmware Version | V1.8-20110127 |
| IE Version | 2.1.329.0 |

Define Your Own Device Name!

Apply Exit

Enter into **[System Information]** menu to view system info, including Device type, Software (firmware) version, IE version and MAC address etc.

When connecting multiple DVR to the same local area network environment, you need to change MAC address for each DVR respectively; otherwise, you may not connect these DVR to network.

Maintain

MAINTAIN

| | |
|---------------|-----------------------------------|
| Auto Maintain | Enable |
| Auto Reboot | Every Week SUN 00:00 Reboot |

Update Load Default Reboot

Power Off

Default Apply Exit

This option allows you recover the DVR settings to factory default settings, update system software (firmware), and set system auto-maintenance.

*There are 4 functions:

Auto Maintain:

*After enabling "Auto Maintain" function , the system will perform regular maintenance depend on your need. Please note the [Auto Maintain] function will be available only when DVR is on the Main interface and have no user online.

Auto Reboot

*After completed "Auto Reboot "setup, the system will auto reboot according to the setting.

Update :

Copy the file named with "dvrupgrade" to USB flash drive; and insert USB flash drive into USB port of DVR, and then click "Update" button to update system.

Reboot :

Click the [Reboot] button to restart the device manually.

Power Off :

The button allows to shut down the system from OSD.



Do NOT Turn off the power and unplug USB Device during update.

if you have any information of DVR upgrading please contact your local dealer or sale person.

Load Default from the function of MAINTAIN



**Load Default :**

After entering into this system , you can select the item which you need to reset to factory default.

Chapter 5. Network Access(Remote)

There are 2 methods to remote access the DVR via network:

Internet Explorer Browser (IE),and Mobile phones.

5.1. IE Setup

5.2. Web Log-in(IE Browser)



4-CH DVR allow you have **5 users** on-line simultaneously.。

8-CH DVR allow you have **3 users** on-line simultaneously.。

***The default username is “Admin”.**

*** Default password is empty.**

English(English)

User Login

IP Address: 192.168.3.103

Media Port: 9000

User Name: admin

Password:

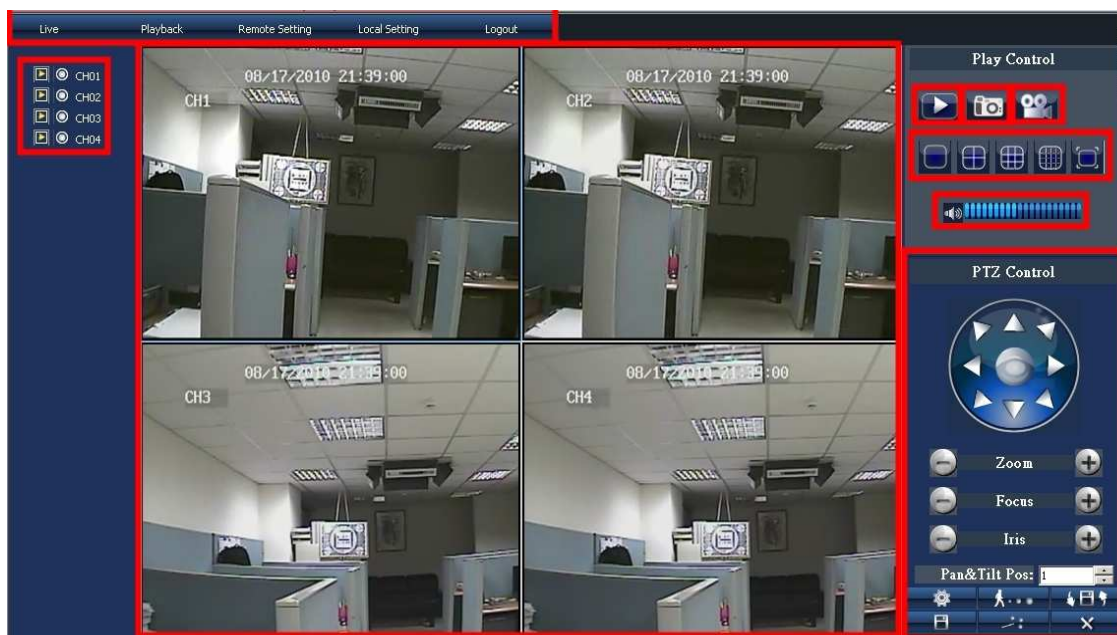
Network: Internet

☒ Open All Channels

Login Reset

5.3 Control Panel(Live view)

The Control panel



Live video connect/disconnect
(ON/OFF)



Snapshot:
Picture Format: *.bmp



Record:
To record live video remotely





Channel display mode:
1 ch/4 ch/8ch/16ch/full screen











Volume button



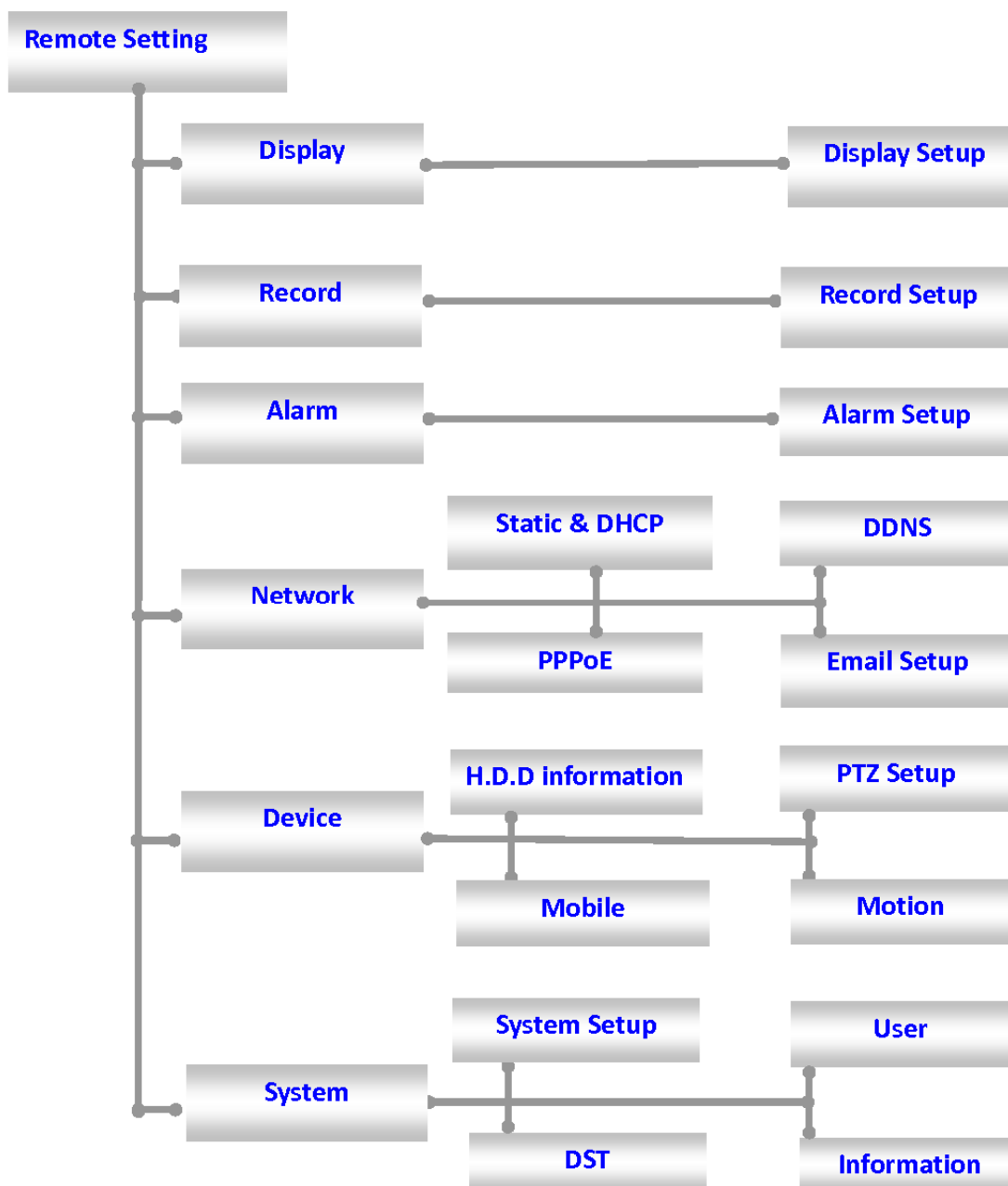
Click the [] icon of one channel to display the image of specified channel.

Click the [] icon to start manual record.

| PTZ Control | | |
|------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------|
|  | Direction Pointer | To move the PTZ to any direction |
|  | Zoom Focus Iris | Zoom in/zoomout; focus adjustment and Iris control |
| | Pan & Tilt Pos | Indicates that you can choose the cruise starting point ,as your desire. |
|  | SET | To set the preset point. |
|  | Clear | To delete the preset point. |
|  | To load the last preset point | Key-in the preset point and click it to load the last preset point which you set. |
|  | GoTo | To Go to the preset point. |
|  | Save | To save the changed or the preset point. |
|  | Cruise | Allows you to enable/disable the “Cruise” function. |

5.4. Setup(Remote Setting)

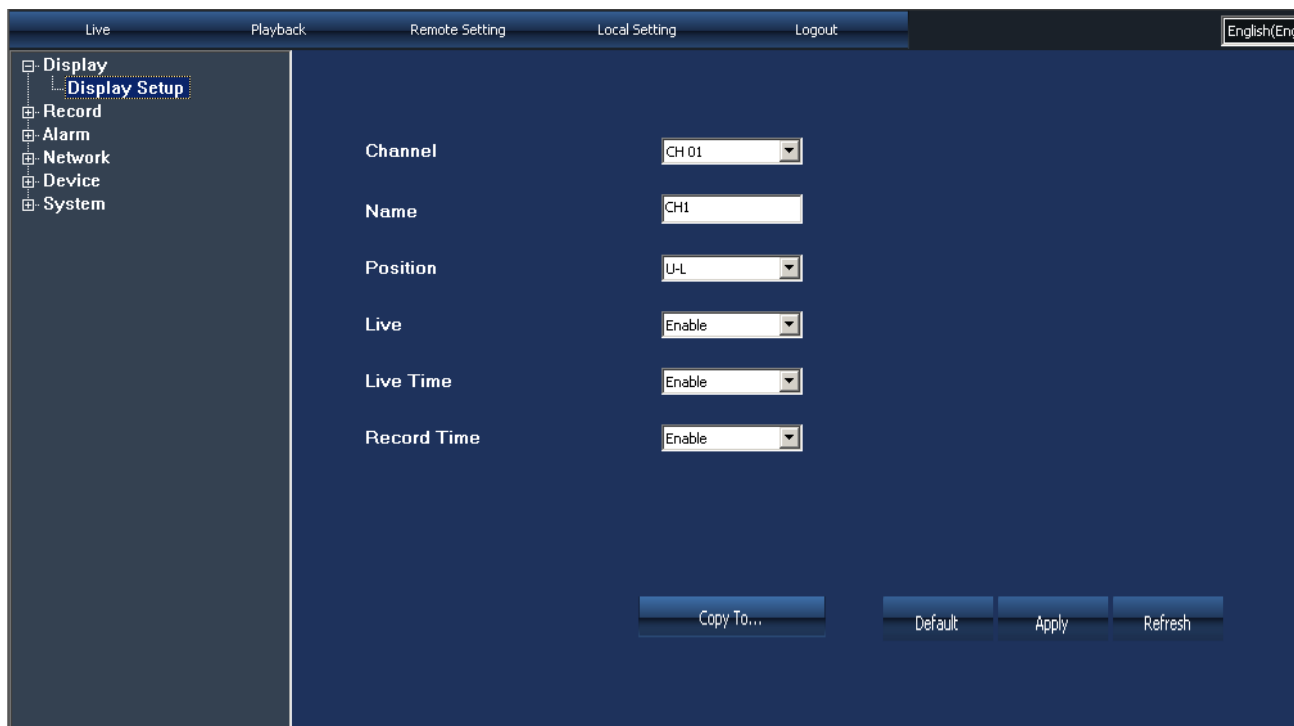
5.4.1. Structure of Remote Setting



After completed each setup, you have to click "  " to confirm the setting.

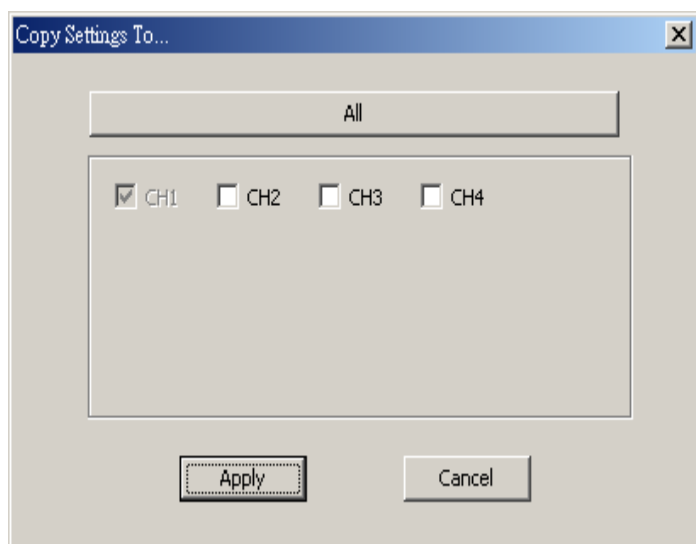
5.4.2. Display Setup

You can setup Channel title/the title position/enable or disable live view/live view time display and record time display.

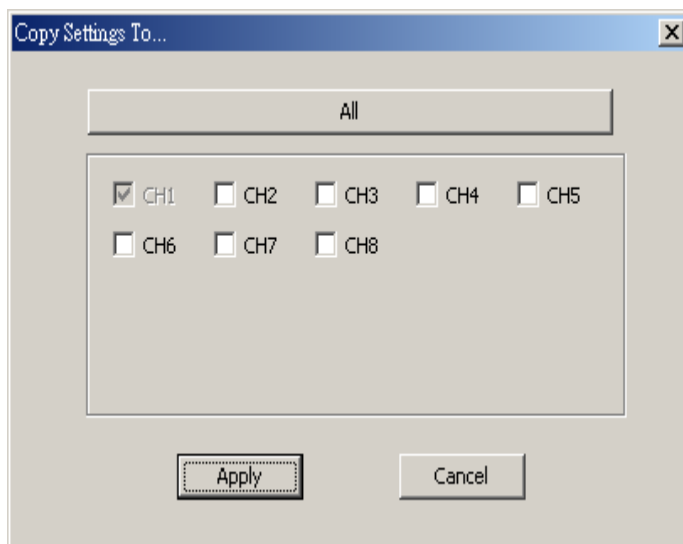



when you see "Copy To..." button, you can copy the setting to the channel which you would like to copy.

4 CH

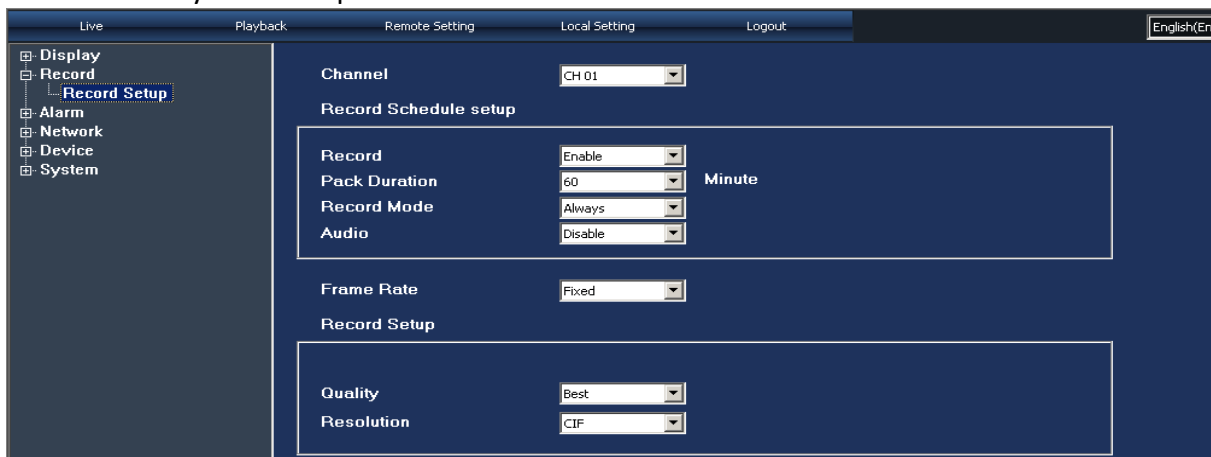


8 CH



5.4.3. Record Schedule:

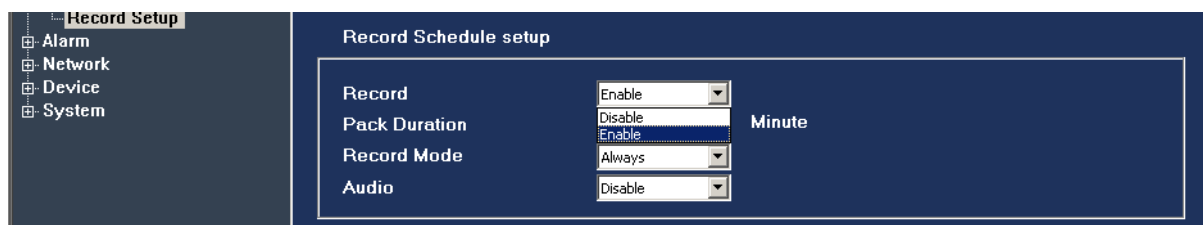
This function allows you to setup the record schedule from remote site.



The screenshot shows the 'Record Setup' interface. On the left is a navigation menu with options: Display, Record, Record Setup (highlighted), Alarm, Network, Device, and System. The main area is titled 'Record Schedule setup' and includes the following settings:

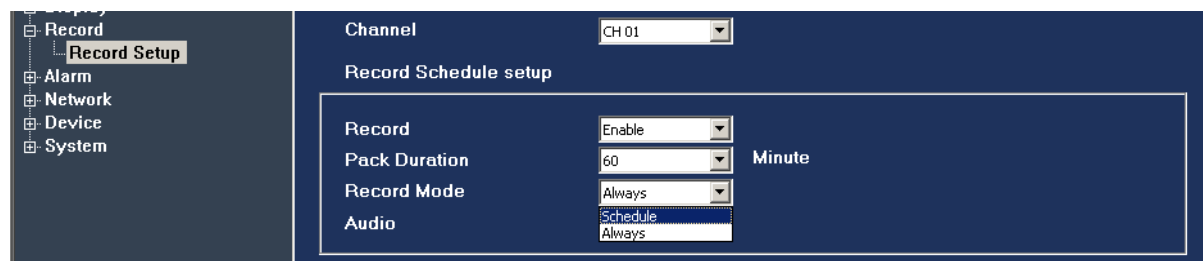
- Channel: CH 01
- Record: Enable (dropdown)
- Pack Duration: 60 (dropdown) Minute
- Record Mode: Always (dropdown)
- Audio: Disable (dropdown)
- Frame Rate: Fixed (dropdown)
- Record Setup section:
 - Quality: Best (dropdown)
 - Resolution: CIF (dropdown)

Step 1. Select "Enable" button from "Record" inside the "Record Schedule Setup".



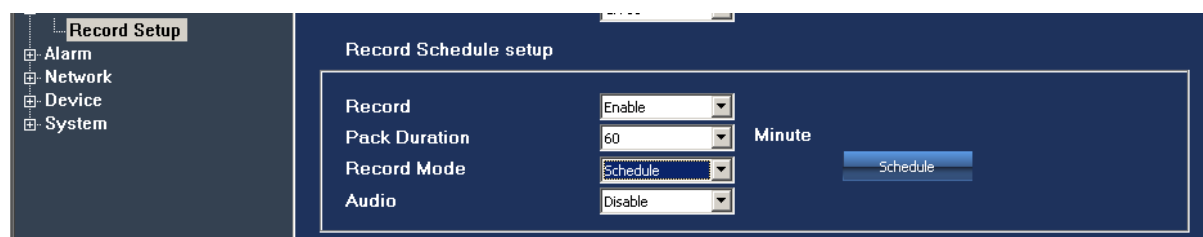
This screenshot shows the 'Record' dropdown menu open in the 'Record Schedule setup' section. The options are: Enable, Disable, Enable (highlighted), Always, and Disable. The 'Record' dropdown is now set to 'Enable'.

Step 2. Select "Schedule" from "Record Mode".



This screenshot shows the 'Record Mode' dropdown menu open in the 'Record Schedule setup' section. The options are: Always, Schedule (highlighted), and Always. The 'Record Mode' dropdown is now set to 'Schedule'.

Step 3. Click  button to setup the record mode.



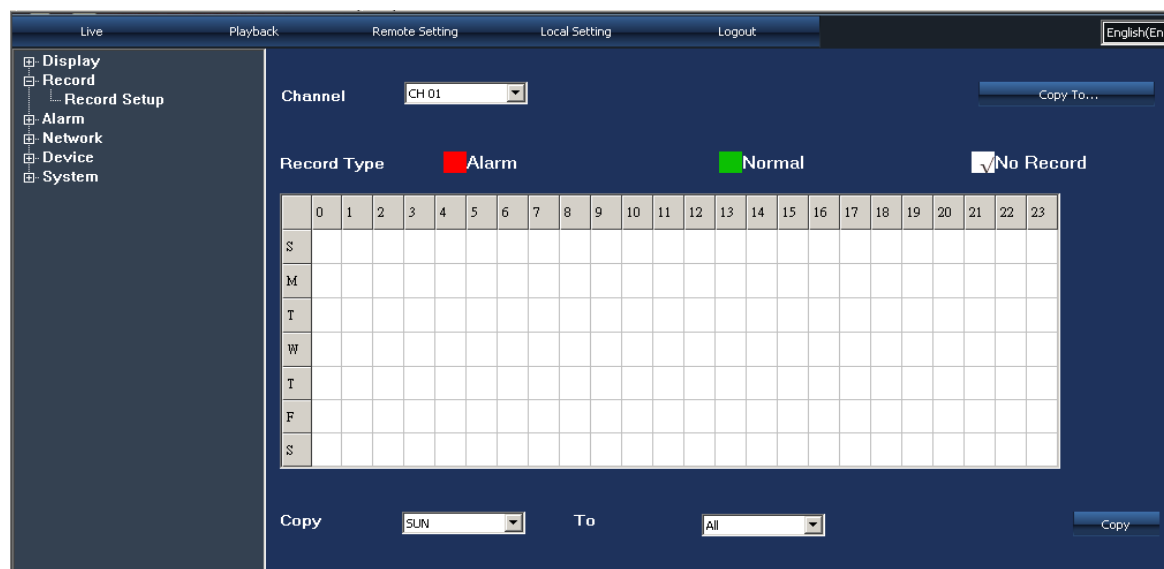
This screenshot shows the 'Record Schedule setup' section with the 'Record Mode' dropdown set to 'Schedule'. A blue 'Schedule' button is visible to the right of the dropdown.

Step 4. Check the record mode which you would like to setup.

There are 3 types of record mode:

Record Type  Alarm  Normal  No Record

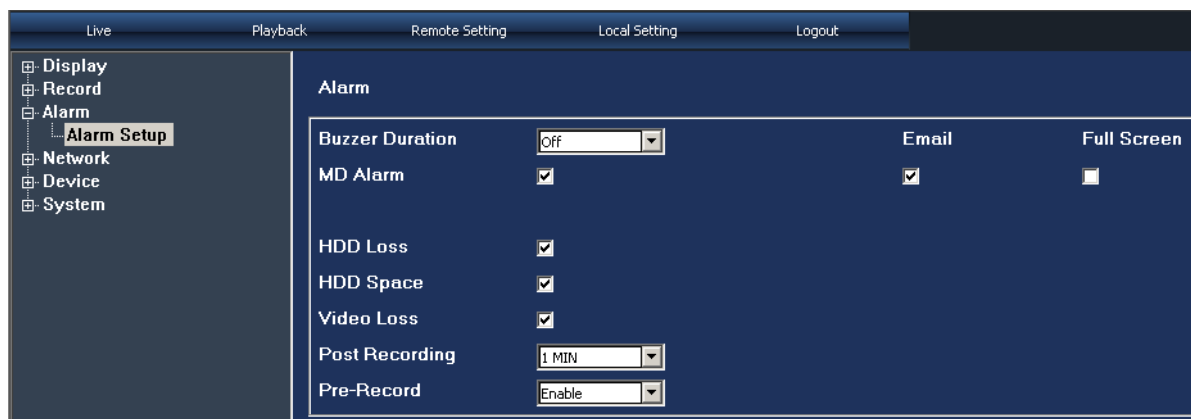
* **【 Red color: Alarm Record 】 【 Green color: Normal record 】 【 transparent/white: No record. 】**



Step 5. Click  button to save the setting.

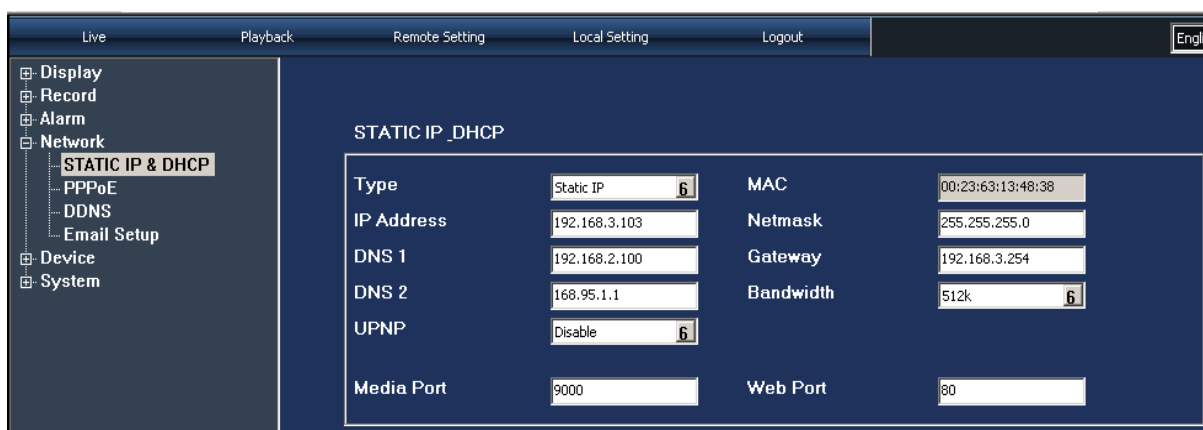
5.4.4. Alarm Setup

You enable or disable the buzzer/motion alarm/HDD Loss alarm/Not enough HDD space alarm/Video Loss alarm/Post recording/Pre-record



| Alarm | | | |
|-----------------|-------------------------------------|-------------------------------------|--------------------------|
| Buzzer Duration | Off | Email | Full Screen |
| MD Alarm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| HDD Loss | <input checked="" type="checkbox"/> | | |
| HDD Space | <input checked="" type="checkbox"/> | | |
| Video Loss | <input checked="" type="checkbox"/> | | |
| Post Recording | 1 MIN | | |
| Pre-Record | Enable | | |

5.4.5. Network



| STATIC IP_DHCP | | | |
|----------------|---------------|-----------|-------------------|
| Type | Static IP | MAC | 00:23:63:13:48:38 |
| IP Address | 192.168.3.103 | Netmask | 255.255.255.0 |
| DNS 1 | 192.168.2.100 | Gateway | 192.168.3.254 |
| DNS 2 | 168.95.1.1 | Bandwidth | 512k |
| UPNP | Disable | | |
| Media Port | 9000 | Web Port | 80 |

There are 4 modes of Network setup

| | |
|---------------------------------------------------------|----------------------------------------|
| Static IP/ DHCP | For setting static IP & DHCP. |
| PPPoE | For setting PPPoE. |
| DDNS | For setting specified DDNS. |
| Email Setup | To send E-mail for some special event. |
| For all setting, please refer to the information below. | |

5.4.5.1. Static IP

Step 1. Click "STATIC & DHCP" option.

Step 2. Choose Type→"Static IP & DHCP", and key in all information, including, IP Address/Media Port/Web Port/Gateway/ Netmask / DNS Server.

*Normally, the DVR will have the same information with internet.

Step 3. Click  button to save settings.

5.4.5.2. DHCP

Dynamic Host Configuration Protocol (DHCP).

It also provides a central database for keeping track of computers that have been connected to the network.

it can prevent two computers from accidentally being configured with the same IP address.

Step 1. Choose "DHCP" from type. Key-in the gateway which was provided by your local ISP service.

Step 2. Click  button to confirm the setting.



If you have any question of internet, please contact your local ISP (Internet Service Provider).



| STATIC IP_DHCP | |
|----------------|-------------------|
| Type | DHCP |
| IP Address | 192.168.2.100 |
| DNS 1 | 192.168.2.100 |
| DNS 2 | 168.95.1.1 |
| UPNP | Disable |
| Media Port | 9000 |
| MAC | 00:23:63:13:48:38 |
| Netmask | 255.255.255.0 |
| Gateway | 192.168.3.254 |
| Bandwidth | 512k |
| Web Port | 80 |

5.4.5.3. PPPoE

Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames.

By using PPPoE, users can virtually "dial" from one machine to another over an Ethernet network, establish a point to point connection between them and then securely transport data packets over the connection.



If you have any question of internet, please contact your local ISP (Internet Service Provider).

Step 1. Click "PPPoE" option.

Step 2. Enable PPPOE.

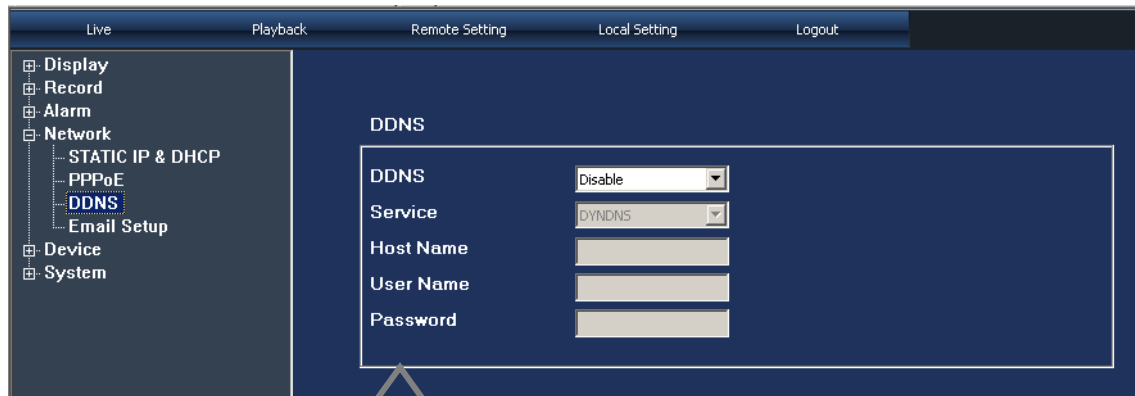
Step 3. key-in the username and password which was provided by local ISP service.

Step 4. Click "Apply" to confirm the saving.


The screenshot shows the KGuard web interface. At the top, there are tabs: Live, Playback, Remote Setting, Local Setting, and Logout. On the left, a sidebar contains a tree view with categories: Display, Record, Alarm, Network, Device, and System. Under 'Network', there are sub-items: STATIC IP & DHCP, PPPoE (which is highlighted with a blue border), DDNS, and Email Setup. The main content area is titled 'PPPoE' and contains a form with three fields: 'PPPoE' (a dropdown menu currently showing 'Disable'), 'User Name' (a text input field), and 'Password' (a text input field).

5.4.5.4. DDNS

Dynamic DNS is a method, protocol, or network service that provides the capability for a networked device.



1. Click " **DDNS** " option.
2. Set DDNS to " **Enable** "
3. Choose the server for DDNS
4. Key-in the information which was provided by ISP service company.

5. Click "  "button to confirm settings.

*For free DDNS , Please refer to "Appendix D"

5.4.5.5. Email Setup



If you have any question of E-mail Setting, Please refer to section 4.8.2.(E-mail setup).

1. Click **"Email Setup"** Option.
2. Email to **"Enable"**
3. IF your Email with Email Encryption, you have to set **"SSL"** to enable".
4. key-in SMTP server.
5. key-in the Email address of sender.
6. key-in the Email address of receiver.
7. Set the sending interval for Email
8. Key-in the SMTP port.
9. key-in the password of sender.

*The port for Gmail is 465, other SMTP is 25.

5.4.6. Device (H.D.D/PTZ/Mobile/Motion)

In this option, you can view the information of **H.D.D.** as well as setup **PTZ/Mobile/Motion** detection.

H.D.D. information

The screenshot shows the 'H.D.D. Status' page. The left sidebar contains a tree view with 'Device' expanded, showing 'H.D.D. Information', 'PTZ Setup', 'Mobile', 'Motion', and 'System'. The main area displays a table with the following data:

| No. | State | Total/Free | Time left |
|-----|--------|------------|-----------|
| 1 | Normal | 250G/181G | 64H |

Below the table, there is an 'Overwrite' label and a dropdown menu set to 'Auto'.

PTZ Setup

The screenshot shows the 'PTZ Setup' page. The left sidebar is the same as the previous screenshot, with 'PTZ Setup' selected. The main area shows the 'Channel' dropdown set to 'CH 01'. Below it, the 'PTZ Control' section contains the following settings:

| | |
|-----------|---------|
| Protocol | PELCO-D |
| Address | 2 |
| Baud Rate | 2400 |
| Data Bits | 8 |
| Stop Bits | 1 |
| Cruise | Disable |
| Verify | None |

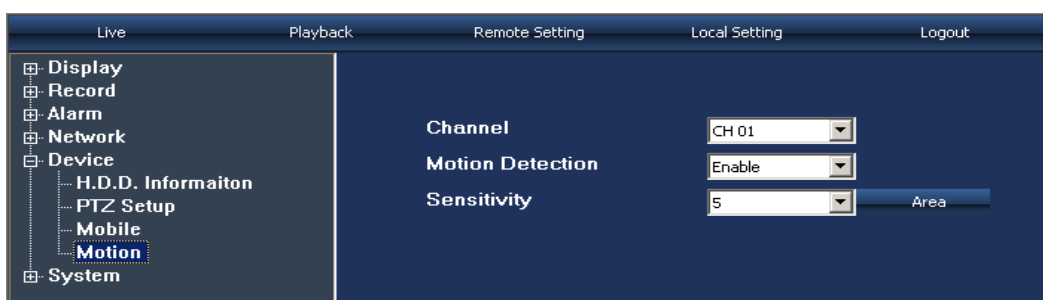
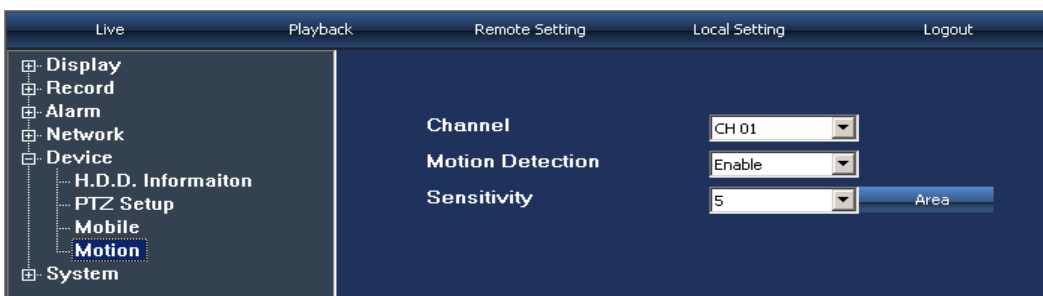
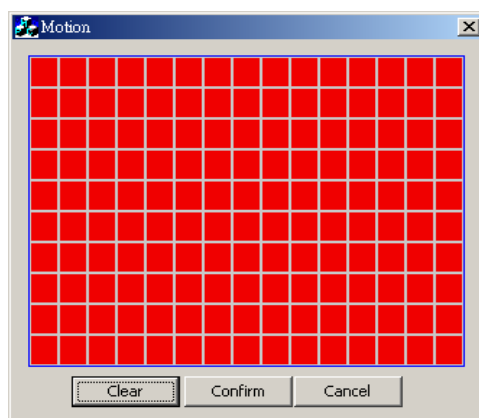
Mobile

The screenshot shows the 'Mobile' page. The left sidebar is the same as the previous screenshots, with 'Mobile' selected. The main area contains the following fields:

| | |
|--------------|-------|
| User Name | admin |
| Password | ***** |
| Service Port | 18004 |

Motion:

Please follow the step , below:

Step 1. Enable Motion detection:**Step 2.** Click “Area” button.**Step 3.** The motion detection setup block will pop-out and you can click the area which you don't want to setup.

5.4.7. System setup(Password/DST)

There are 4 options:

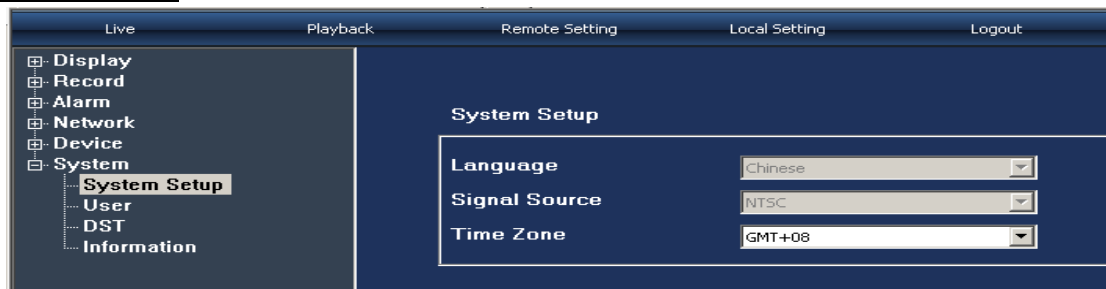
System Setup

User setup

DST

Information

5.4.7.1. System setup



5.4.7.2. Authority(Password management)

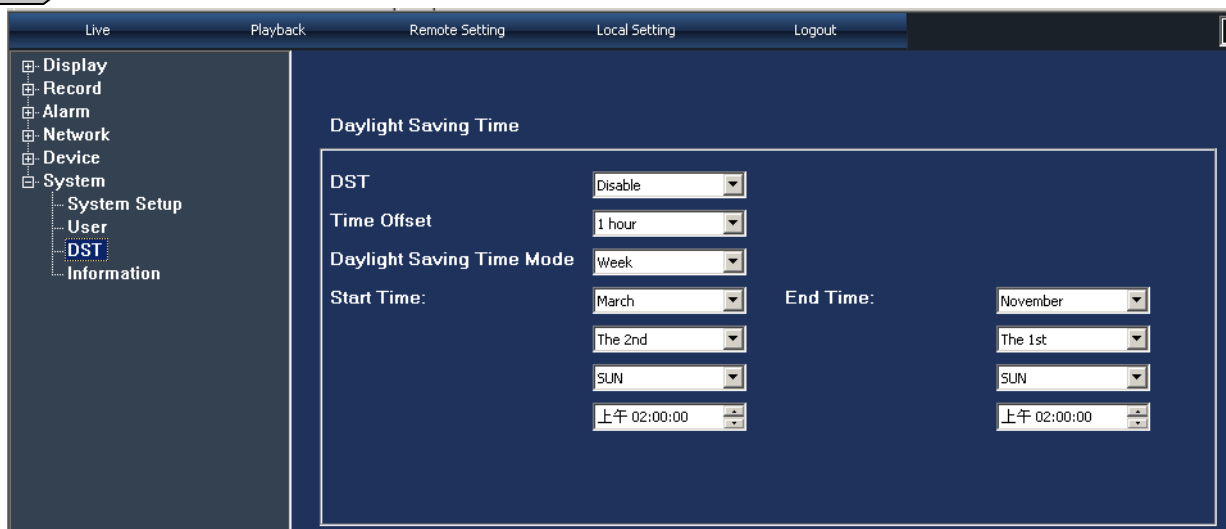
You can set 6 users in this setting, if you would like to set the authority for each user, you have to log in the account of Admin.

| No. | User Name | Type | ACTIVE |
|-----|-----------|-------|---------|
| 1 | admin | ADMIN | Enable |
| 2 | user1 | USER1 | Disable |
| 3 | user2 | USER2 | Disable |
| 4 | user3 | USER3 | Disable |
| 5 | user4 | USER4 | Disable |
| 6 | user5 | USER5 | Disable |
| 7 | user6 | USER6 | Disable |

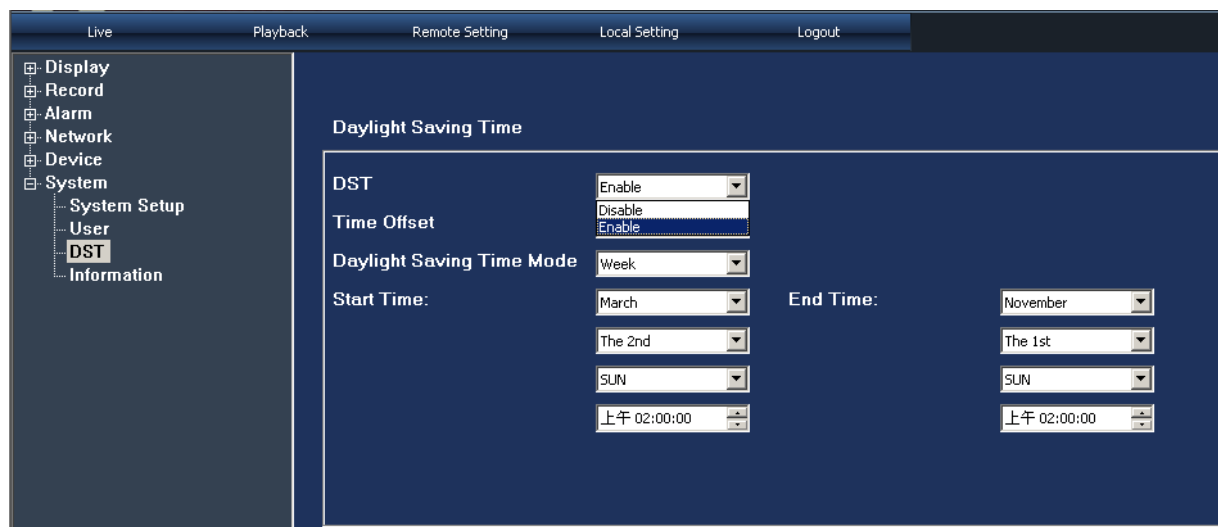
1. Click "User" Option.
2. Choose the user which you would like to provide authority (6 users).
3. Set Active to "Enable".
4. Set password to "Enable".
5. key-in username which you would like to set.
6. key-in password which you would like to set.
7. Reconfirm password.
8. Check the item which you allow other user to use.

5.4.7.3. DST SETUP

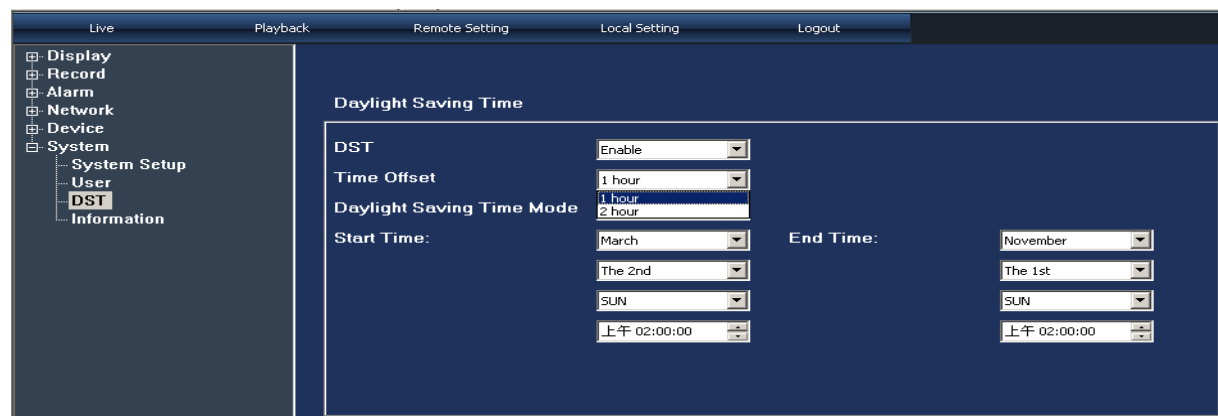
Step 1. Click "DST" option.



Step 2. Enable "DST".



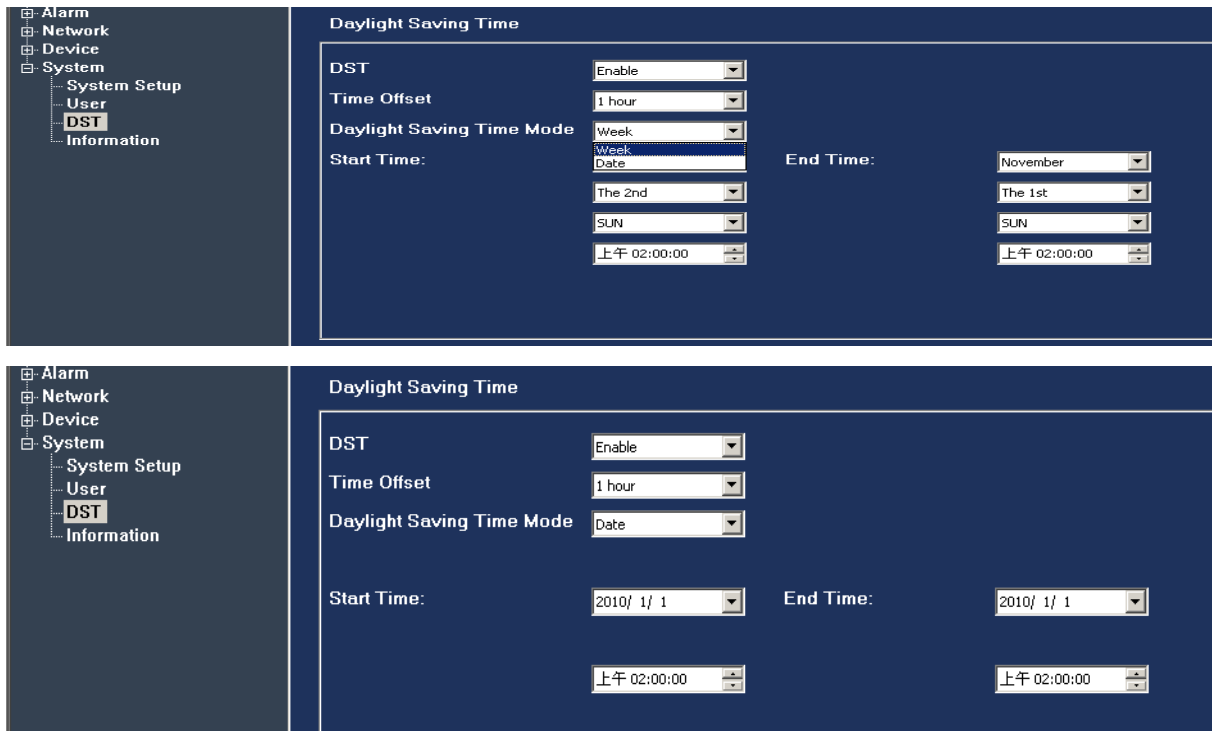
Step 3. Choose the offset time .



Step 4. Choose “Daylight Saving Time Mode”.

There are 2 types of DST:

1. Choose by week
2. Choose by date



Daylight Saving Time

DST:

Time Offset:

Daylight Saving Time Mode:

Start Time:

End Time:

Daylight Saving Time

DST:

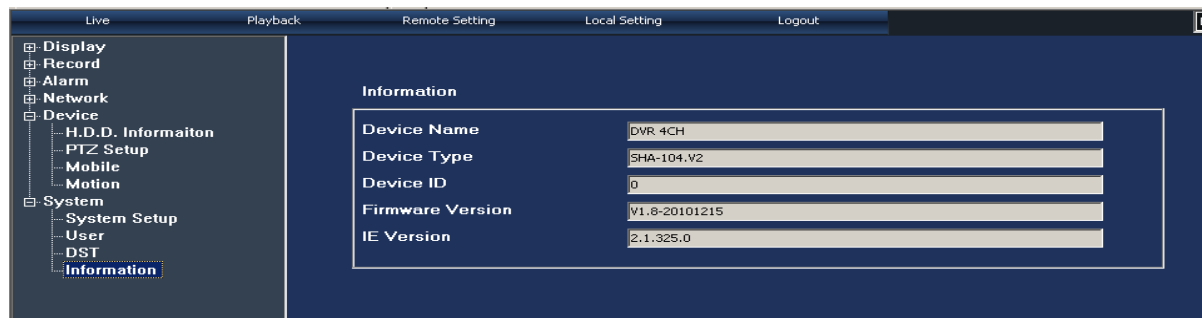
Time Offset:

Daylight Saving Time Mode:

Start Time:

End Time:

5.4.7.4. System information

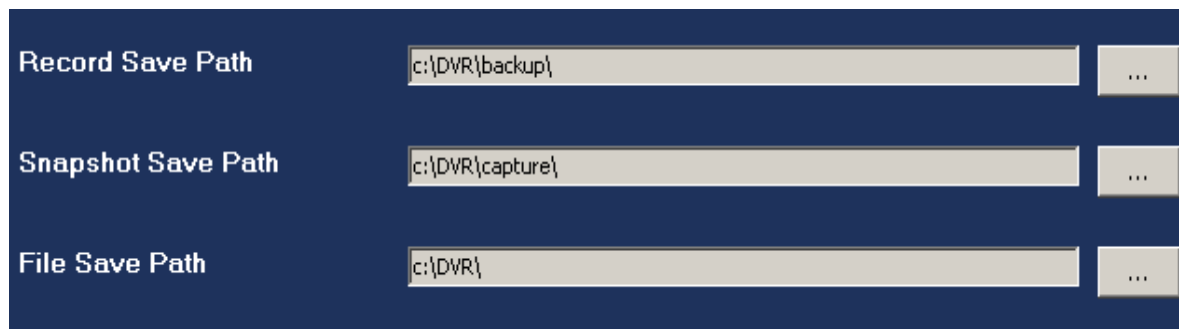


Information

| | |
|------------------|---------------|
| Device Name | DVR 4CH |
| Device Type | SHA-104.V2 |
| Device ID | 0 |
| Firmware Version | V1.8-20101215 |
| IE Version | 2.1.325.0 |

5.5. Local Setting

This option allows you set “Record Save Path”, “Snapshot Save Path” and “File Save Path”.



Record Save Path

Snapshot Save Path

File Save Path

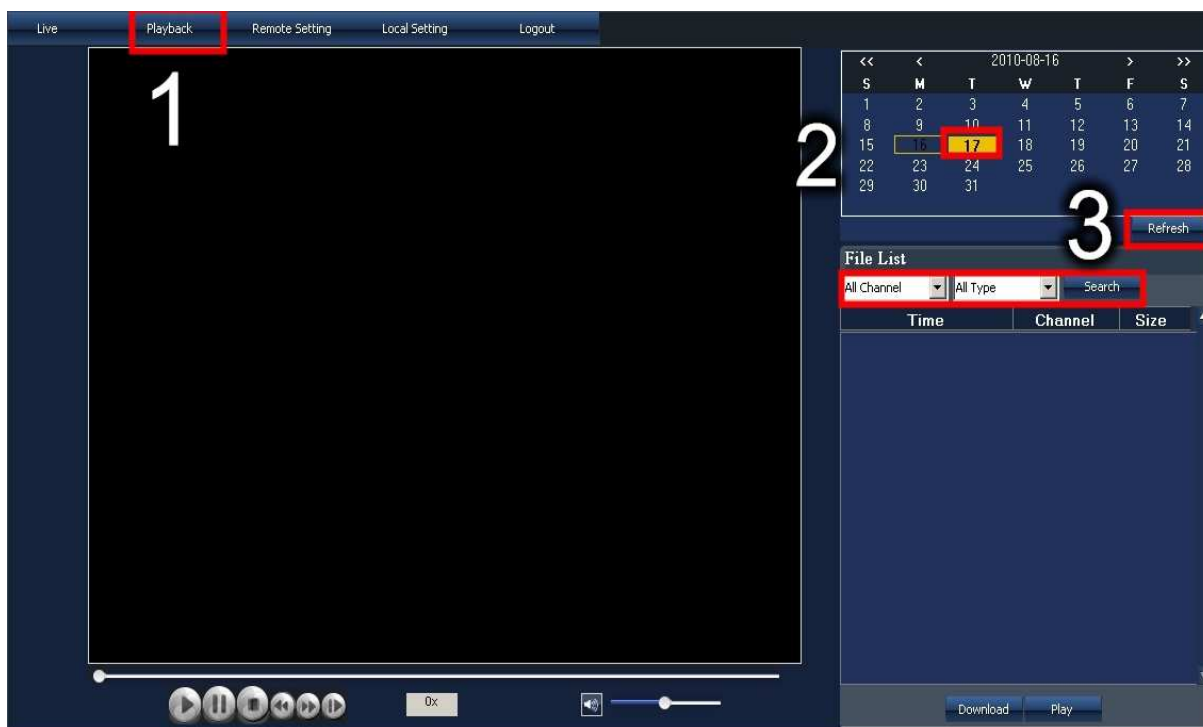
5.6. Playback(IE Browser):

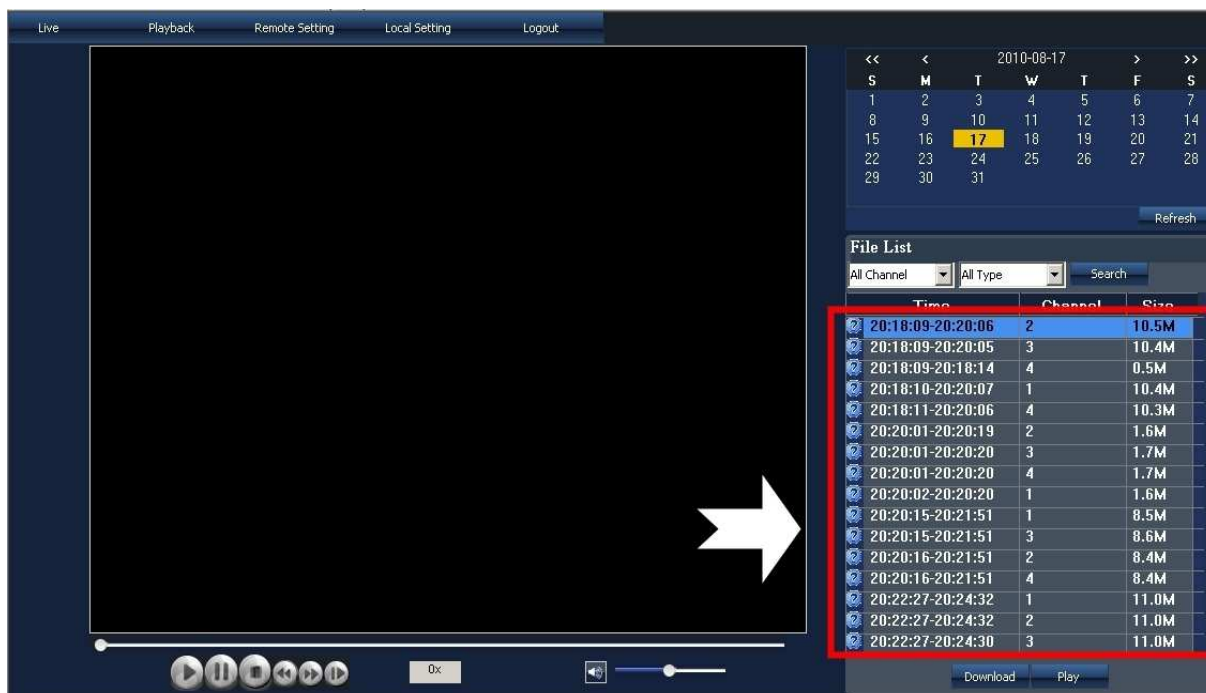
Step 1. Click "Playback" option.

Step 2. Click the date which you would like to playback.

Step 3. Also, you can click "Refresh" button to search the video file again, or use file list to choose which channel you would like to playback, and then click on "Search" button.

***The video file list will be displayed.**

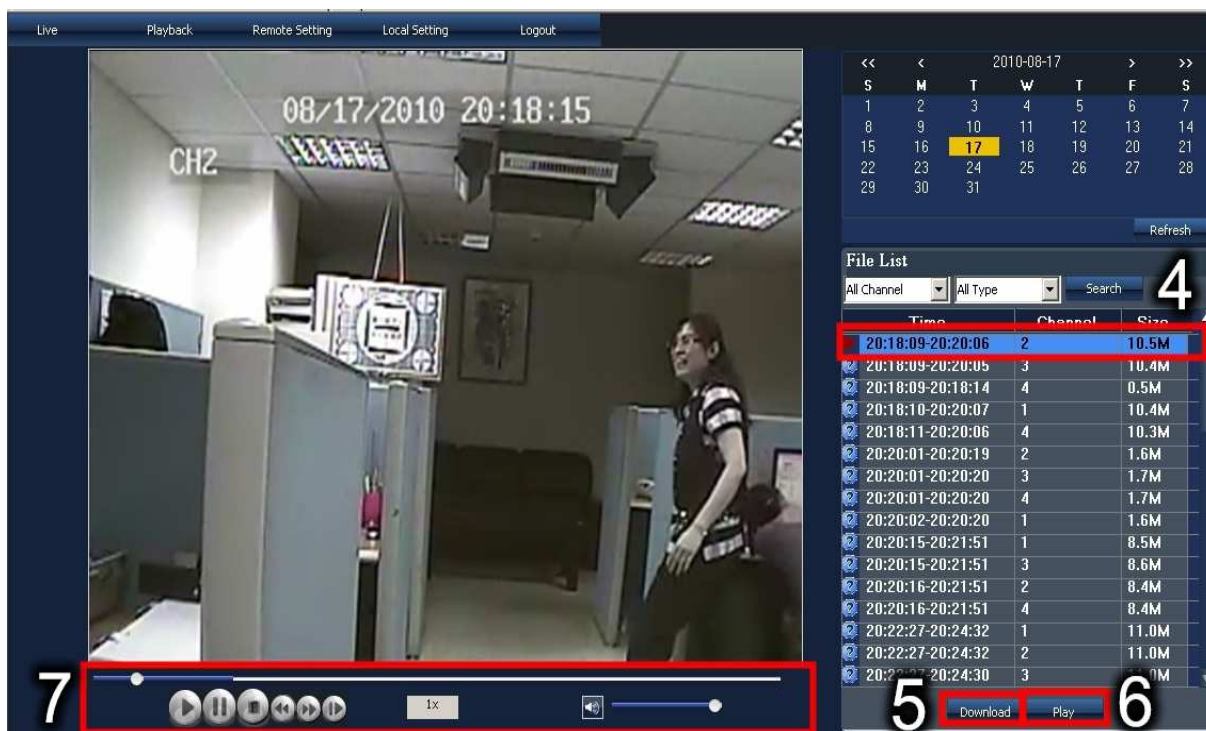




- Step 4.** Click specified video file which you would like to playback, remotely.
The video will be displayed.



When the video file is playing, the system won't allow you to download video files.

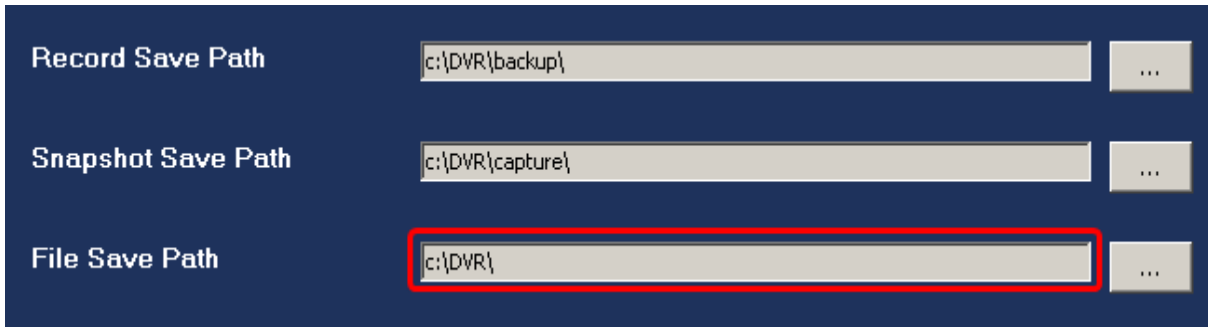


- Step 5.** Close the playing video and then click  button to download video file.

- Step 6.** When the video file was downloaded, the dialogue box will display.



*And you can check the file path, as below.



*Remote manual recording file will be saved to **【Record save path】** .

*Local recording file will be saved to **【File save path】**.

*Double-click any file listed or highlight any file and click **【Play】** button to play the selected recording file.

*Click **【Download】** button to download and save selected recording file to specified saving path.

*You can set **【Save Path】** option on the **【Local Setting】** option.

*The **“Play control option”** is located at the bottom of the display, include **【Play】**, **【Pause】**, **【Stop】**, **【Slow Play】**, **【Fast Play】**, **【Next Frame】** and **【Volume adjust】** option.

5.6.1. Logout

Click **【Logout】** option to return back Log-in page.

5.7. Mobile Phones Access

The DVR is currently compatible with mobile phones running Windows Mobile, Symbian, iPhone, Blackberry and Android operating system.

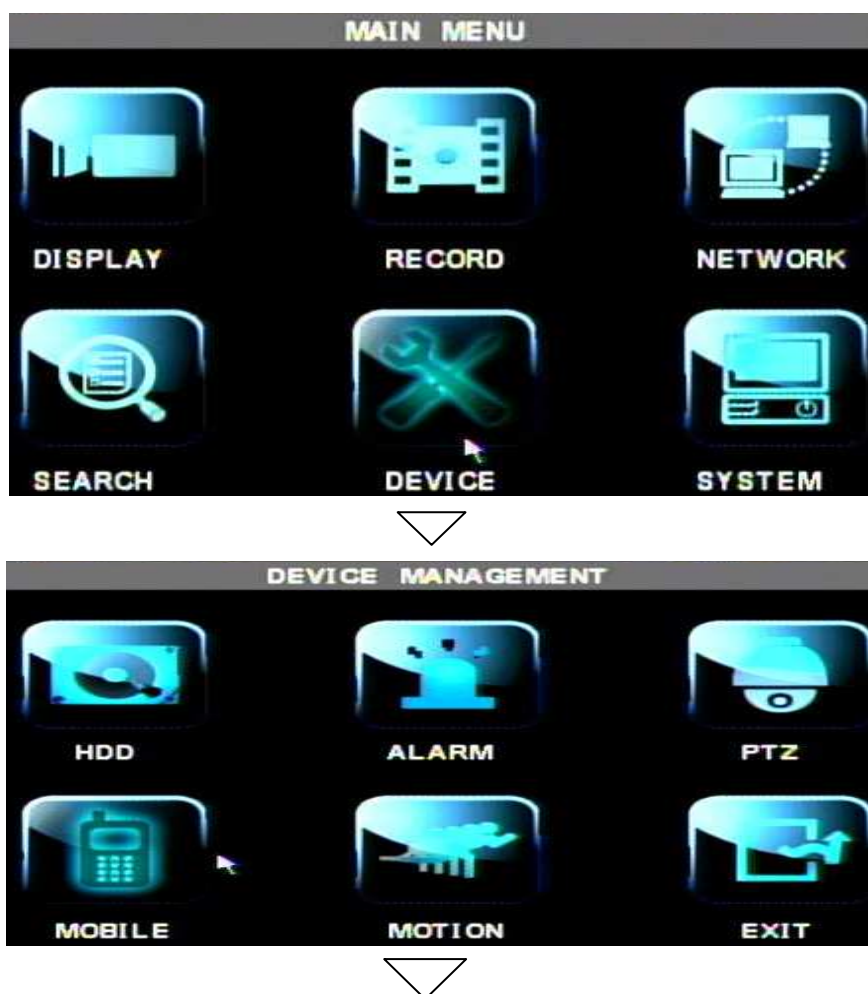
*Due to the model of mobile phone is variety, so we only provide 1 model for your reference, if you have any question of your mobile phone ,please refer to appendix J.



When your DVR is connecting internet through router, you need to forward the port at the virtual server option of your router. For more information, please refer to Appendix (mobile) in this section.

5.7.1. Mobile Setup

Before viewing the live image of DVR from mobile phones, you need to set the settings first. Also make sure that your DVR has connected to Internet.






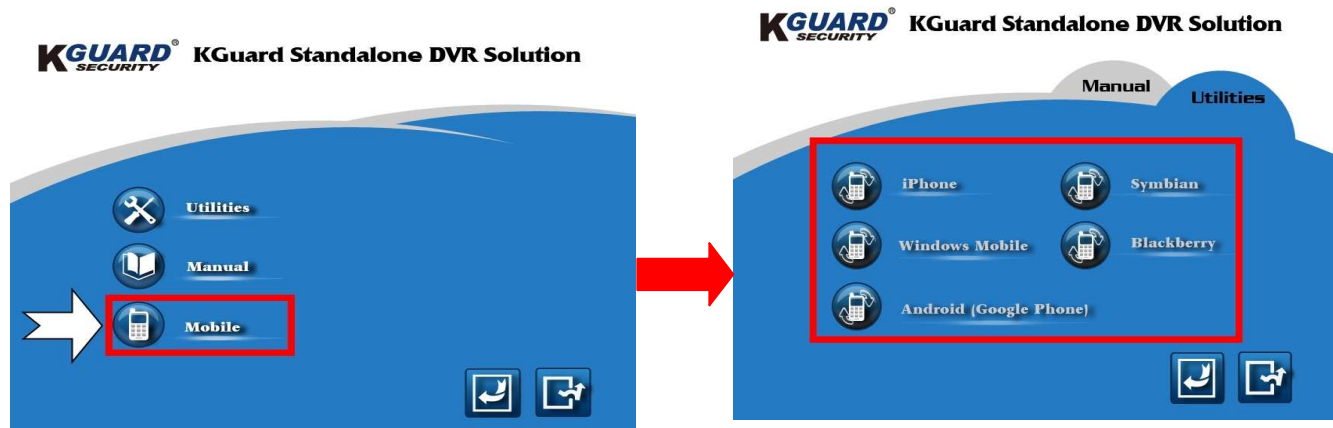
| All Functions | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| USER NAME | The login user name of DVR |
| USER PASSWORD | The login Password of DVR |
| SERVER PORT | Mobile monitoring port. Setting range is between 1024 and 65535. Please note that the server port of DVR must with the same port of mobile . |



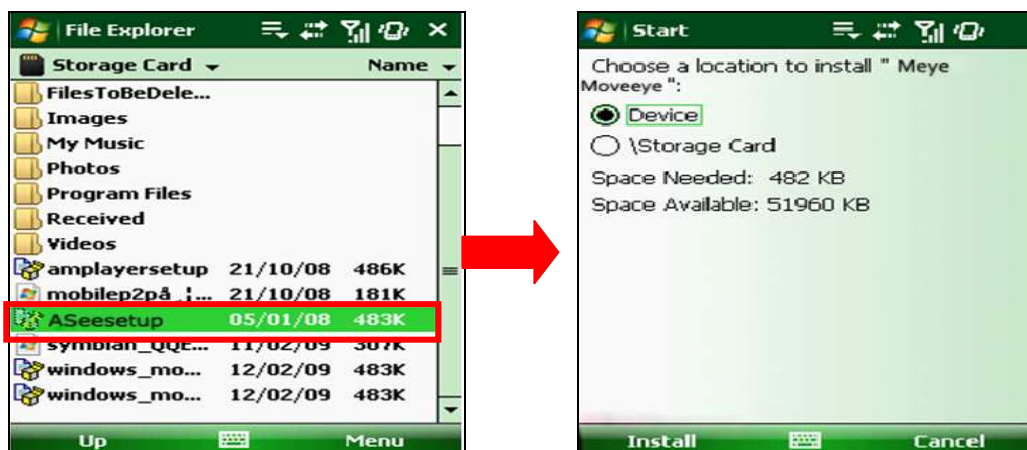
You also need to forward this port at the virtual server option of your router.

5.8. Install & Operate (Windows[®] Mobile Phones)

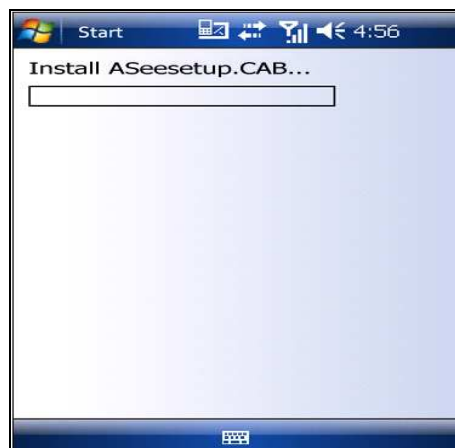
- Step 1.** Install the webcam program that is included on the supplied CD by  click icon.
- Step 2.** Click the type of mobile which you need from 5 icons.
- Step 3.** Copying the “Aseesetup.CAB” file into mobile phone.



- Step 4.** Click “ASeesetup” and choose an installation location ,after the initialization.



- Step 5.** Click “Install” button to start the installation processing.



Step 6. After completed installation, click “ASee” icon to run the program.



Step 7. Key-in the information of DVR and Check ☒ Auto Connect box.



Username: The Username of DVR
 Password: The Password of DVR
 Server: The IP address of DVR
 Port: The port for connecting DVR
 Notes: The note for DVR

Ok History

☒ Auto Connect ☐ 中文 ☒ English

v20100723-11



Username: guest
 Password: ****
 Server: 60.248.198.130
 Port: 10080
 Notes: Big Guy

Ok History

☒ Auto Connect ☐ 中文 ☒ English

v20100723-11

| All Functions | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| User's Name | Indicate that the user name which have been set on DVR-[Mobile Set] menu. |
| Password | Indicate that the password which has been set on DVR-[Mobile set] menu. |
| Server address | Indicate that public IP address connected to DVR or dynamic domain name used by DVR |
| Web port | Indicate the server port which has been set to your DVR. |
| Channel | Select one channel you want to monitor Click [ok] to confirm the above setting , and system will return back the previous menu. |
| Auto-connect | When tick-selecting [Auto-Connect] option, the mobile phone will be auto-connected to the DVR. |

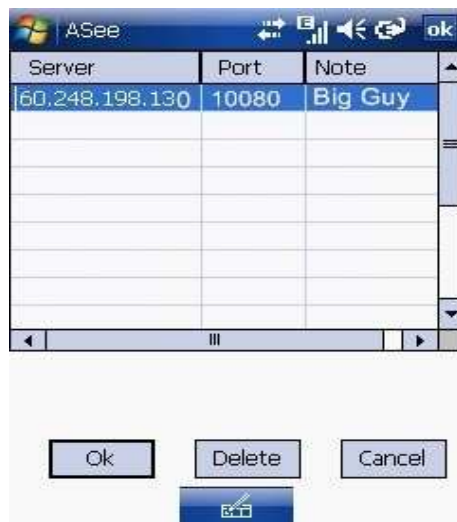


Because of the model of mobile is variety, so we just provide 1 model for your reference.

For more information please go to website:















<http://www.htc.com/us/#/?slide=1>


Step 8. Now, you can check the list of your connecting information.




Step 9. Press  button, to enter the main screen and to view the video.



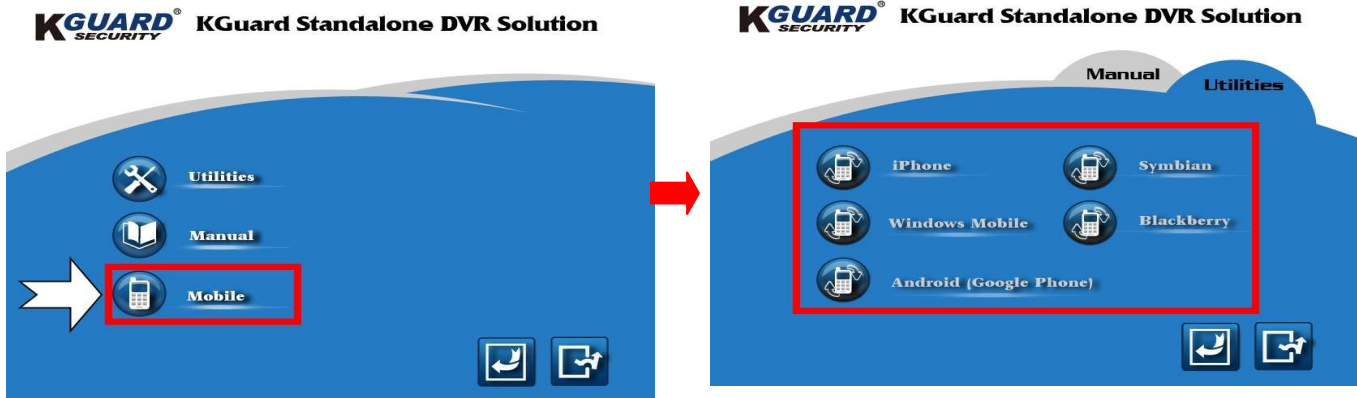
| Picture | Function key | Description |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 【Items】 | 【Channel option】 Click  button, to select the channel which you would like to view. |
| | 【Connect/Disconnect】 | Click the button to enter into the live image of the channel you selected |
| Function buttons in the bottom from Left to right for PTZ | | |
|  |     | PTZ Direction |
| |   | Area Selection (ZOOM+, ZOOM-) |
| |   | Focus (focus +, focus-) |
| |   | Iris (I +, I -) |
| |  | Snapshot |


 Please make sure that your PTZ setup of DVR is correct (**Section 4.8.**), then you could control PTZ camera through your mobile phone.


 The captured images will be saved to the defaulted path (**Explorer→Program Files→Moveeye→Photo file**).

5.9. Install & Operate (Symbian® Phones)

Step 1. Install the program that is included on the supplied CD by copying the file to the mobile phone.
 “ASee_AL_3rd_0723.sisx”(3RD EDITION) or “ASee_AL_5th_0723.sisx”(5TH EDITION)
 *Click “Mobile” and then choose the software which you need.

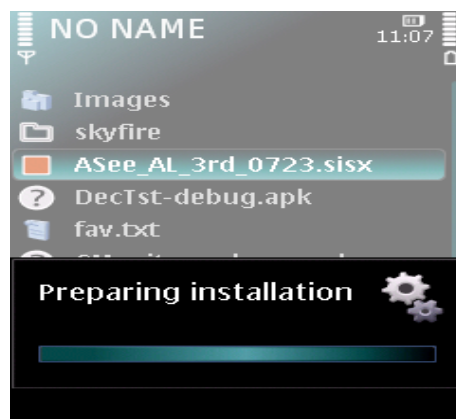


 You can use the connecting cable which was included by mobile company ,and then connect the mobile phone to a computer and copying the file from the CD to the phone.

 “ASee_AL_3rd_0723.sisx” apply to S60 - The 3rd edition operate system Mobile, and “ASee_AL_5th_0723.sisx” apply to S60 - The 5th edition operate system Mobile.



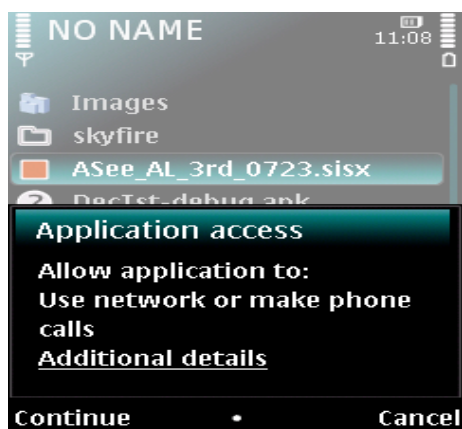
Step 2. Click the program “ASee_AL_3rd_0723.sisx” to start the installation.



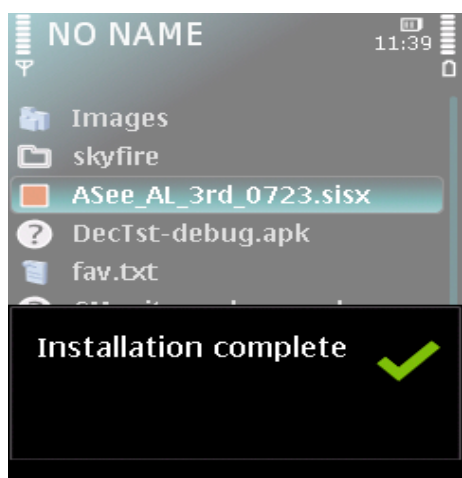
Step 3. Choose Mobile card or SD card as an installation location.



Step 4. Click “Continue” button to make sure the application program you installed may visit network or dial phone when popping-up the dialog box.



Step 5. After successful installation system will prompt you “Installation Complete”.



Step 6. If the program is installed into SD card, please enter into "Application" menu to find "Mobile Viewer" icon.



Step 7. Click [Mobile Monitor] icon to run the program, and then you will enter into the interface



(Function buttons in the bottom in turn are:)

| | | | |
|---|-----------------------------|----|--------------------|
| 1 | CH 1; CH 2 | 7 | Play & Pause |
| 2 | CH3; CH 4 | 8 | Full/Normal Screen |
| 3 | PTZ Direction :left, right, | 9 | Snapshot |
| 4 | PTZ Direction: up, down | 10 | Setup |
| 5 | ZOOM+ focus + I+ | 11 | Next CHs Group |
| 6 | ZOOM- focus- I - | 12 | Quit |



The snapshot images will be saved to the defaulted path-"File manager\Images".

Step 8. For first time using or Need some change on the Parameters, click the **[Setup]** button, you will enter into the window. Click **[Play]** button to enter into live display.



- **Default Access point:** Allow you select network type based on your mobile net environment.
- **Server address:** herein indicate public IP address connected to DVR or dynamic domain name used by DVR.
- **Web port:** indicate the server port which has been set to your DVR.
- **User Name:** herein input the user name which has been set on DVR-[Mobile Set] menu.
- **Password:** herein input the password which has been set on DVR-[Mobile Set] menu.
- **Channel:** Select the channel from the DVR you want to monitor.

Step 9. Click **[Done]** to confirm the above setting , and system will return back the previous menu.



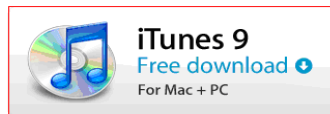
5.10. Install & Operate (iPhone[®])

(A)Download iTunes

Step 1. Visit Apple website <http://www.apple.com/itunes/> to download & install the iTunes.

That's entertainment.

Your music collection. Your favorite movies and TV shows. Apps, games, podcasts, and more. iTunes is home to everything that entertains you.
[See what's new](#)



Step 2. After download the file of iTunes , click "iTunesSetup" icon to install it.



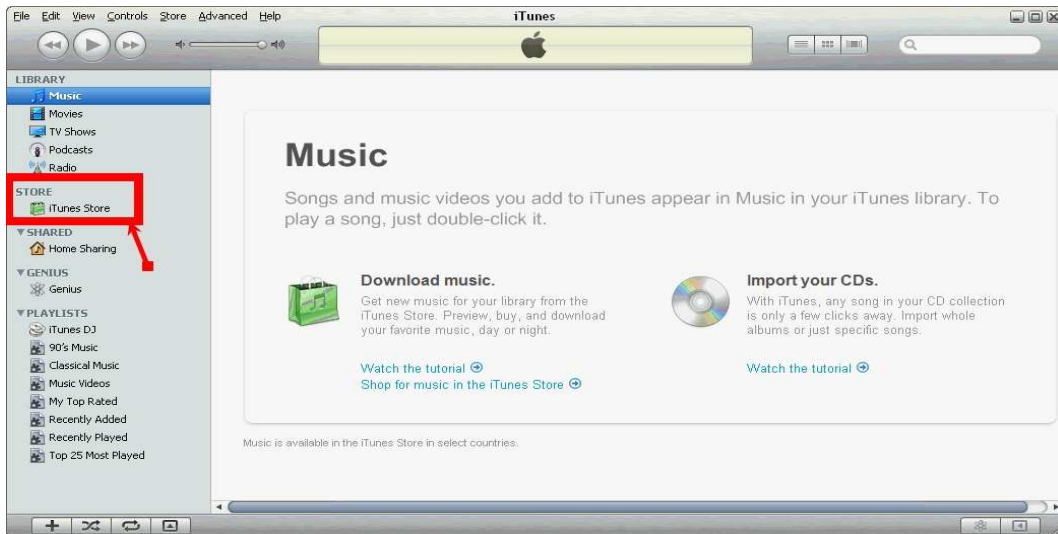
Step 3. After finished installation of iTunes, click "iTunes" icon or system will enter the login page ,automatically.

Step 4. Follow the setup procedures , and then click "Finish" button , to enter the iTunes store.

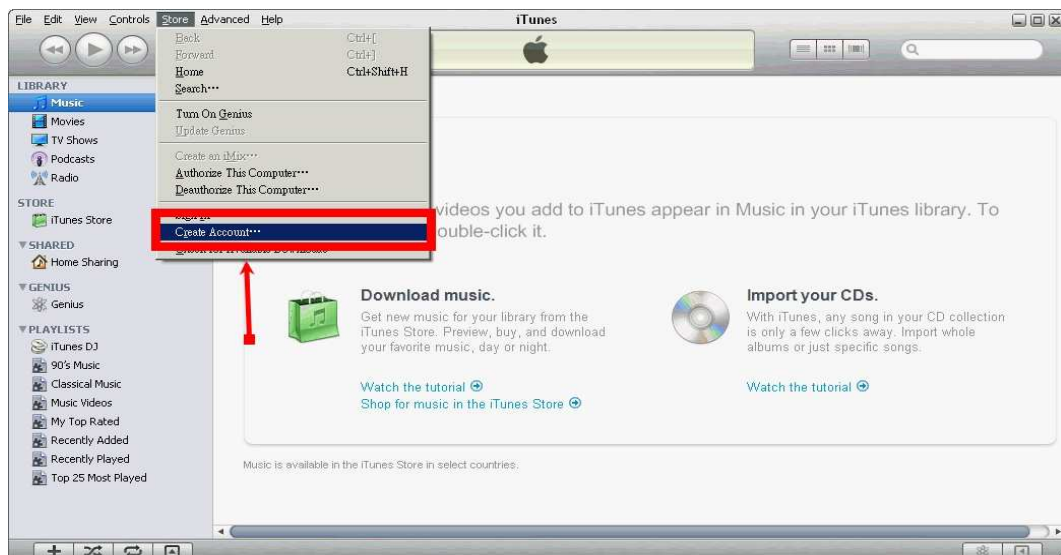


if you already sign in the membership, please proceed to the step 14.

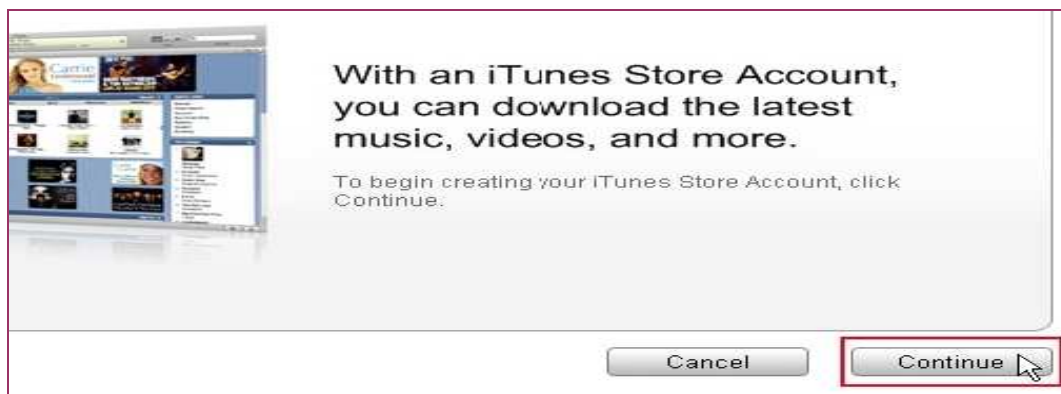
- Step 5.** The login page will display.
Click **"STORE→iTunes Store"** option.



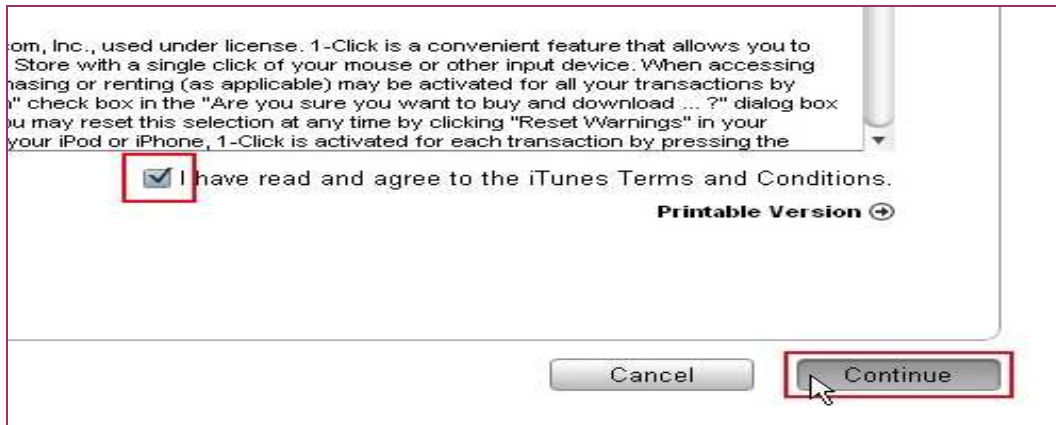
- Step 6.** Click on **"Store→Create Account"** to create your own account.



- Step 7.** Click **"Continue"** button to proceed next step.



Step 8. Check the term and conditions, and then click **"Continue"** button.



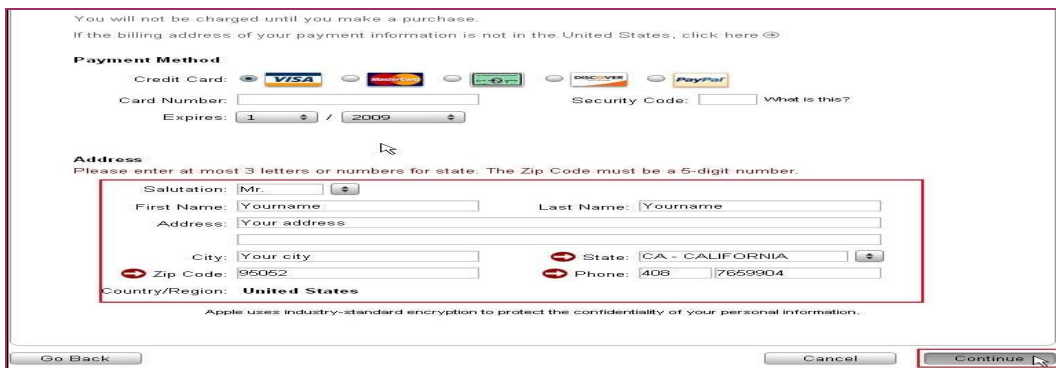
Step 9. Create your personal account and fill out all information which was requested by system.


After fill-out all information .

Click **"Continue"** button to proceed next step.



Step 10. Fill in your personal info & click **"Continue"** button.



 The options of Payment Method are different from different regions, please select another payment method.

"Asee" is free software & you don't need to pay for it.

 *If you have any question of payment, please contact the local supplier of i-Phone .

Step 11. Finished the register, and go to your email box to verify your account.

Verify Your Account Secure Connection

An email has been sent to the address below with a link to verify your account. Make sure to check your email and follow the link to complete your account sign up.

aplayerid@gmail.com


[Resend the email or change your email address](#)

Done

Step 12. Click the link included in the email message.

Dear Yourname Yourname,

Your iTunes Store Account has been set up, with the following Apple ID:

 aplayerid@gmail.com

Please click the link below to verify your account, then sign in to the iTunes Store using your new Apple ID and the password you created when you set up your account.

<https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/verifyAccountEmail?evcode=VT6KXL6PMRXX4>


Sincerely,

The iTunes Store Team
Apple Inc.

It will connect to the iTunes store and turn to iTunes interface.

One Moment Please.
Connecting to the iTunes Store.

Loading.



If iTunes doesn't open, click the iTunes application icon in your Dock or Windows Task Bar.

Step 13. Sign in your account.

iTunes

Sign in to complete Account Creation
Sign in using the account and password you used during setup.

Apple ID: Example: steve@me.com


Password: [Forgot Password?](#)

[Sign In](#) [Cancel](#)

The register of your iTunes store account has been done.

Congratulations

Your iTunes Store Account has been successfully created.
You can now shop for your favorite music, movies, TV shows, and more.

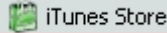



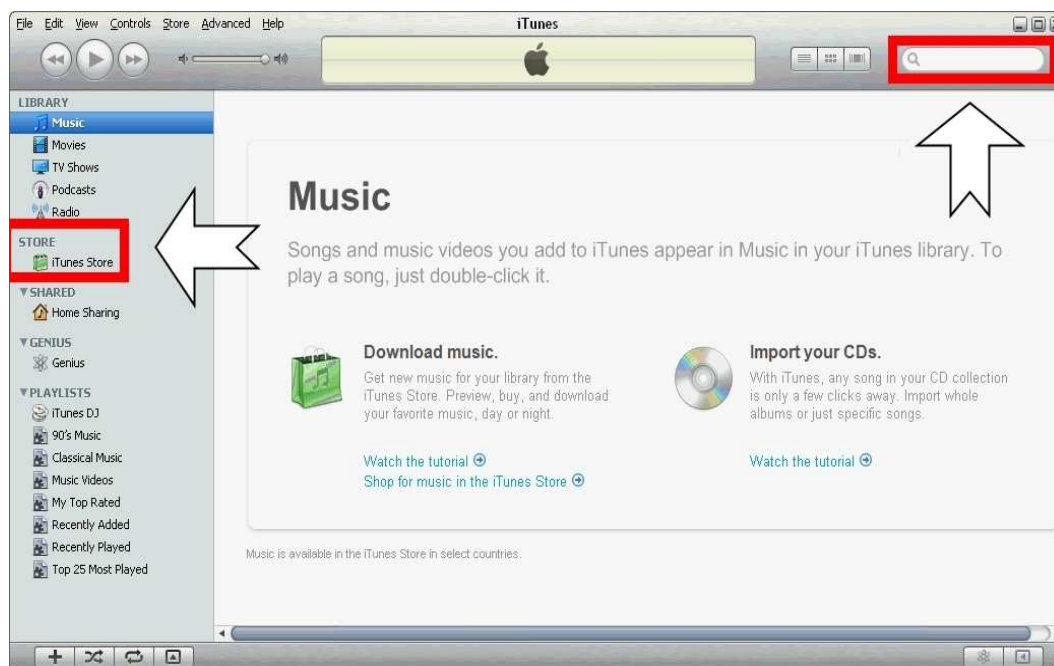
If you're new to iTunes or the iTunes Store, check out our free video tutorials:

- Shop the iTunes Store
- Buy Movies and TV Shows
- Get Free Podcasts
- Explore the iTunes Store
- Import Music from CDs
- Create Playlists
- Sync to Your iPod

[View Free iTunes Tutorials](#)

Done

Step 14. Click  and then Key-in the characters “ASee” in the “ search” column .

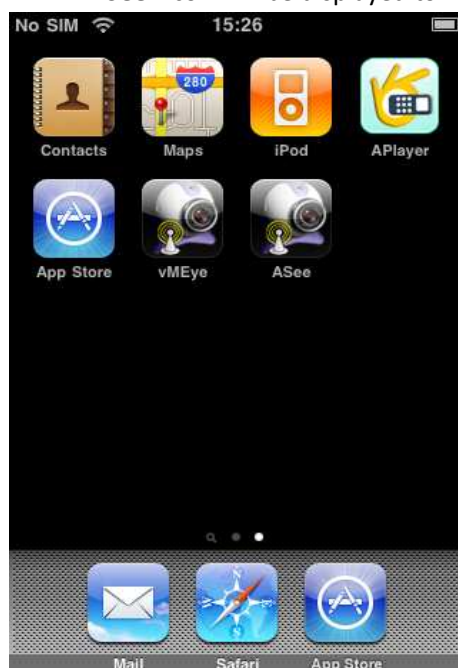



For connecting cable, please contact your local i-Phone service.

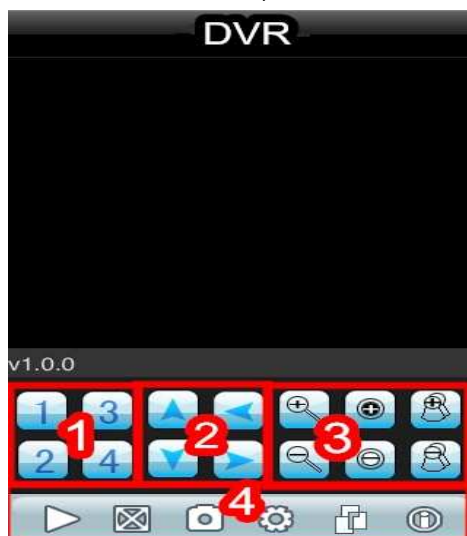
Or go to i-phone website for support : <http://www.apple.com/support/iphone/>

Step 15. Download and install the “ASee” program to your mobile by connecting cable.


Step 16. After finishing installation, “ ASee” icon will be displayed to mobile phone interface.



Step 17. Click ,  "ASee" icon to enter the main screen, as below:



| Functions | |
|-----------|--------------------------------------------------------------------------------------------------------------|
| 1 | Channels select. |
| 2 | PTZ Lens control (Area Selection (ZOOM+、 ZOOM-) , Aperture (I+,I-) , Focus (focus +, focus-)) |
| 3 | PTZ Direction (left, right, up, down) |
| 4 | Function buttons from left to right in turn are: Pause, Full-screen, Snapshot, setup, help and Access setup. |

 We have introduced Monitor point setting in the previous Symbian and Windows system setting. The setting method for iPhone is same as the Symbian and Windows system. Please refer to the previous section.

Step18. Setting the connecting information of DVR.



Step 19. Click “” button, to back to main screen.

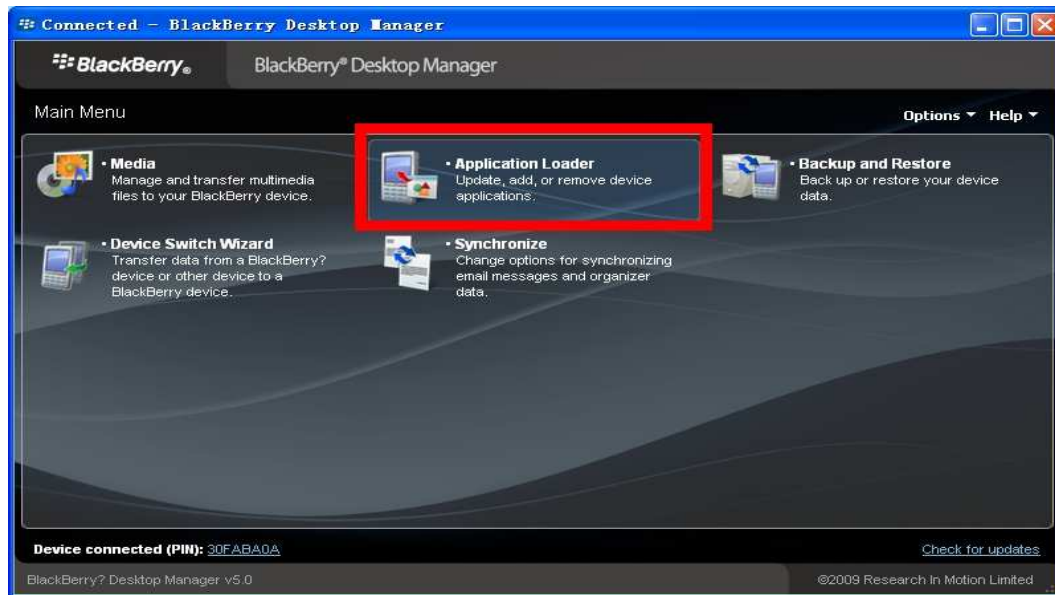
Step 20. Click “Play & Pause ” button, to view videos, remotely .



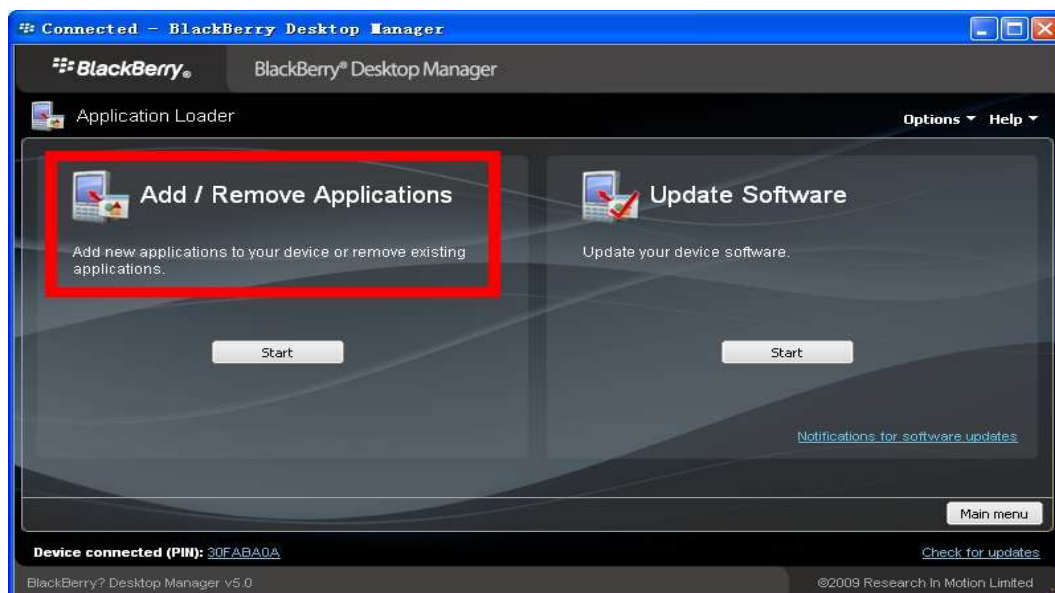
5.11. Installation & Operation (Blackberry Mobile)

5.11.1. Installation

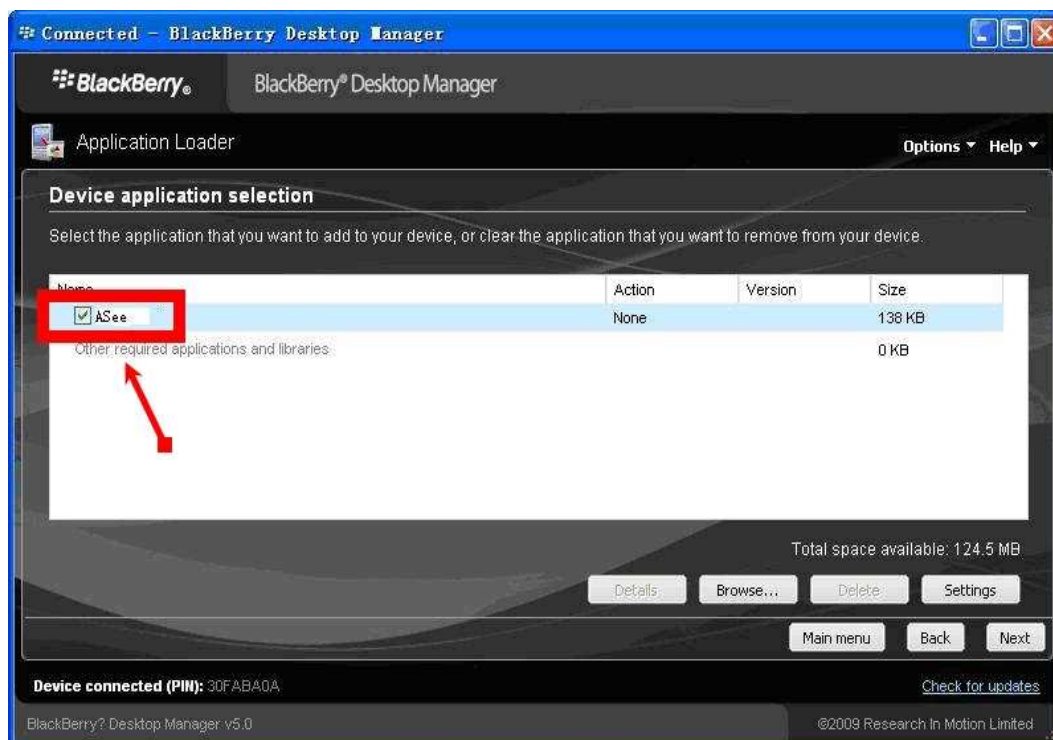
- Step 1.** Download and Install the Blackberry Desktop Manager on the computer.
- Step 2.** Connect your Mobile to your PC via USB cable.
- Step 3.** Open the Desktop Manager.
- Step 4.** Choose '**Application Loader**' from the Main Menu.



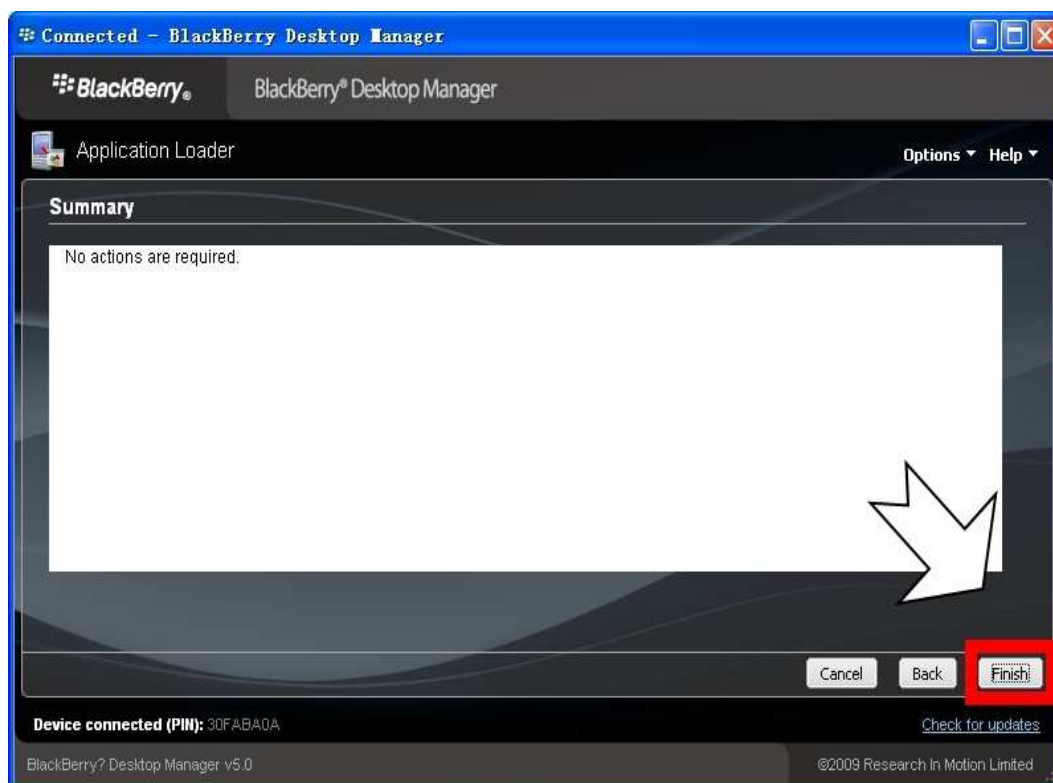
- Step 5.** Click "Start" Button on the "Add/Remove application" menu.



Step 6. Click “Browse” button and check the “ASee.alx” file.



Step 7. Click “Finish” button to finish the installation.



5.11.2. Setup & Operation

Step 1. The Blackberry viewer will be installed to the “Downloads” directory.




Step 2. Enter into the “Downloads” directory, and then click the “ASee” icon.



Step 3. Enter into the below interface.



- 1 ---Connect/disconnect
- 2 ---Full screen
- 3 ---Snapshot
- 4 ---Setup
- 5 ---Help
- 6 ---Next page
- 7 ---PTZ Control

Step 4. Click  icon to setup the information of DVR

Setting

| | |
|-------------------------------------------------------------------|-----------------------|
| Server info | |
| Name : | The title of DVR |
| Address: | The IP address of DVR |
| Port: | The port of DVR |
| User info | |
| User ID: | The Password |
| Password: | and username of DVR |
| Network info | |
| NetworkType | WIFI ▼ |
| <div> <div>save</div> <div>cancel</div> <div>history</div> </div> | |

Setting

| | |
|-------------------------------------------------------------------|----------------|
| Server info | |
| Name : | DVR |
| Address: | 60.248.198.130 |
| Port: | 10080 |
| User info | |
| User ID: | guest |
| Password: | ***** |
| Network info | |
| NetworkType | WIFI ▼ |
| <div> <div>save</div> <div>cancel</div> <div>history</div> </div> | |

Step 5. Select the Network Type supported by Blackberry phone.

Setting

Server info

Name :

Address:

Port:

User info

User ID:

Password:

Network info

NetworkType

WIFI
3G

save cancel history

Step 6. Click "save" button to save the setting.

Step 7. Click "Next Page" icon to search "Channel" option, and then choose the channel which you would like to display.




Step 8. Click “ play’ icon to view video.



Step 9. Click “Full screen” icon to enter into full screen display mode, again click the “Trackball” button of mobile to quit the full screen mode.



Step 10. Click “ Next page” button to find the “PTZ Control” icon and enter into the mode. Now you could freely control your PTZ camera through your Mobile phone.



Step 11. Click “Close” button to exit the program .



For further information just click “Help” button to view the software’s Help instruction.



if your mobile had connect to other DVR, you can delete it , as below.

Step 1. Click the “” button to enter into the History List.

Setting

Server info

Name :DVR

Address: 60.248.198.130

Port: 10080

User info

User ID: guest

Password: *****

Network info

NetworkType

WIFI ▼

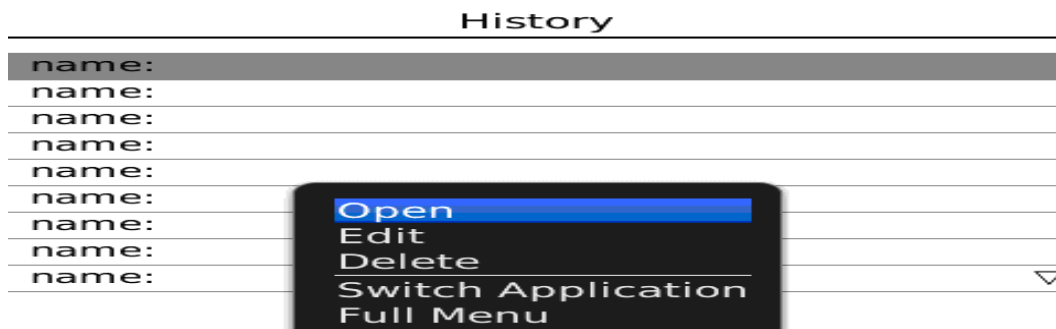
save cancel 

Step 2. Highlight one record and click “Enter” button to enter into pop up menu.

When selecting “Open” option, system will directly be connected to the DVR and defaulted to display the CH1.

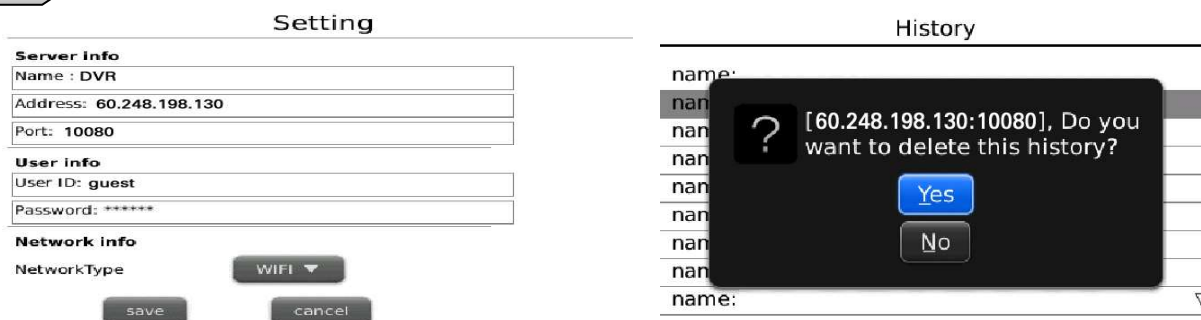
History

| | |
|-----------|---|
| name: | ▲ |
| name: | |
| name: DVR | |
| name: | |
| name: | |
| name: | |
| name: | |
| name: | |
| name: | |



Step 3. When selecting “**Edit**” option, system will allow you edit the history record.

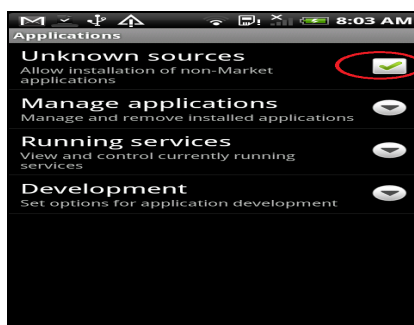
Step 4. When selecting “**Delete**” option, the history record will be deleted.



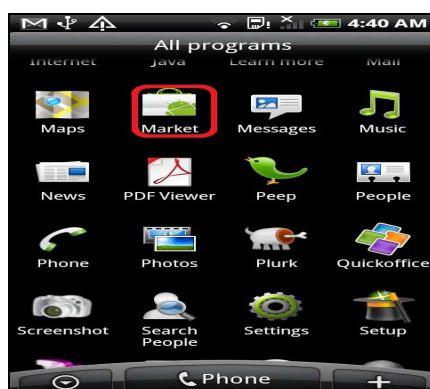
5.12. Android Mobile

*Please make sure that the software is compatible with your Android Mobile.

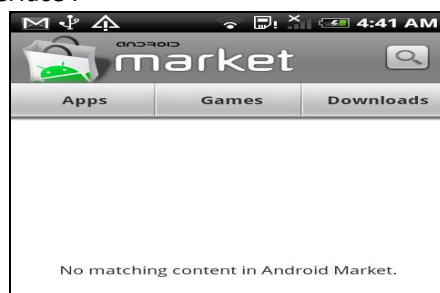
Step 1. Make sure your mobile have been connected to network and could download the software.




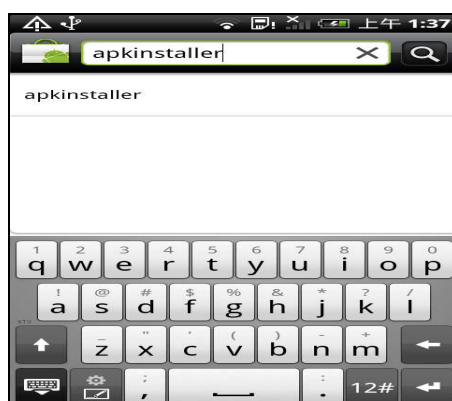
Step 2. Enter into "Program" option and highlight "E-market" icon .



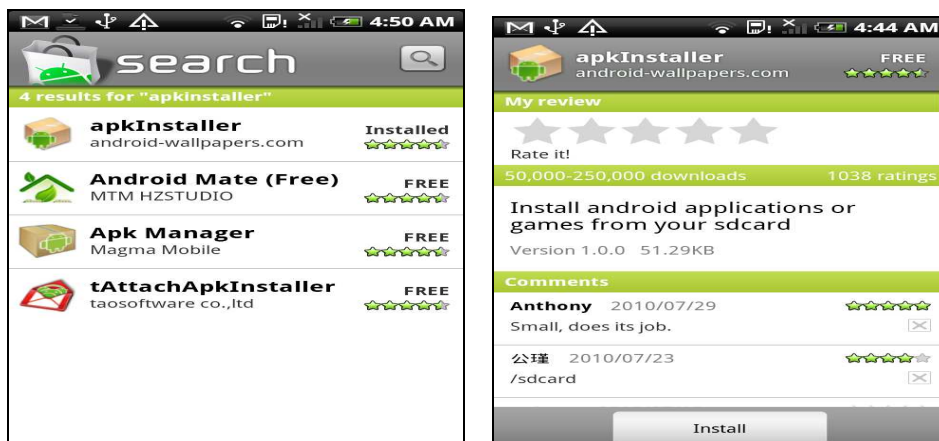
Step 3. Enter into the "E-market" interface .



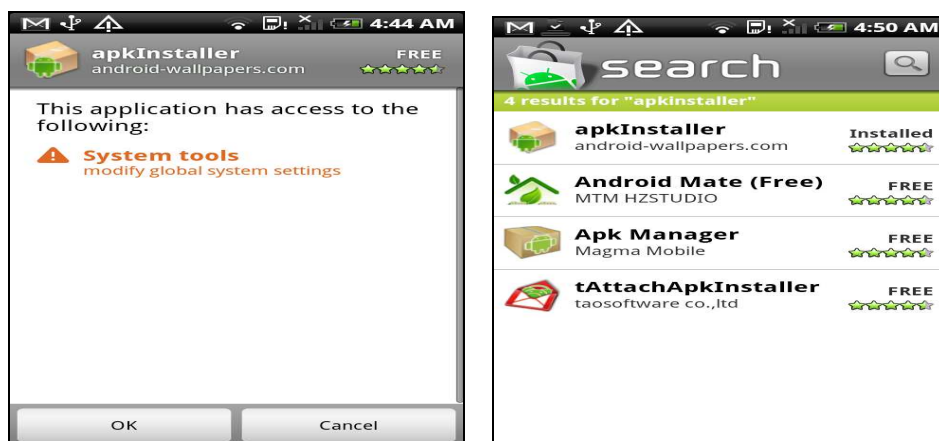
Step 4. Click  icon on the upper right corner and key-in "Apkinstaller" to search the Apkinstaller program.



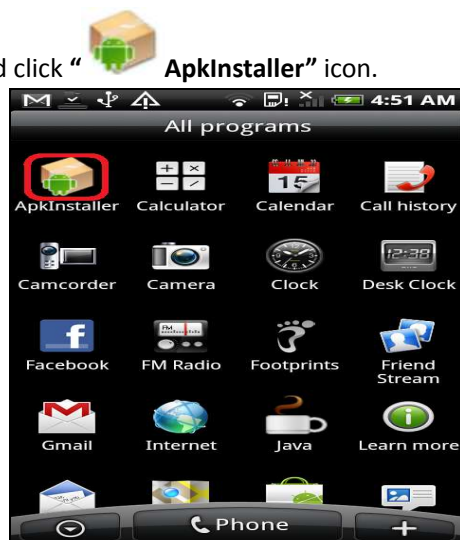
Step 5. Highlight and install the program which was searched by system.



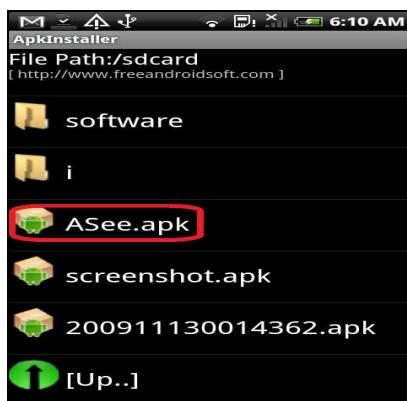
Step 6. Proceeding to the next step for installation.



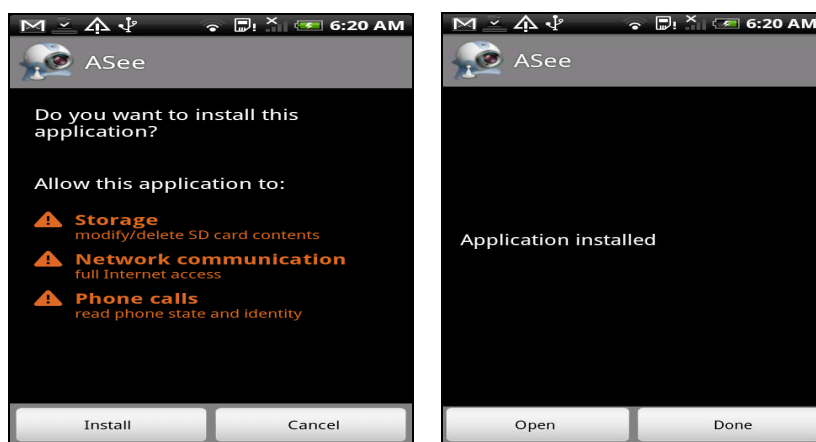
Step 7. Enter into "Program" file and click "ApkInstaller" icon.



Step 8. Find the “ASee.apk” file you would like to install.



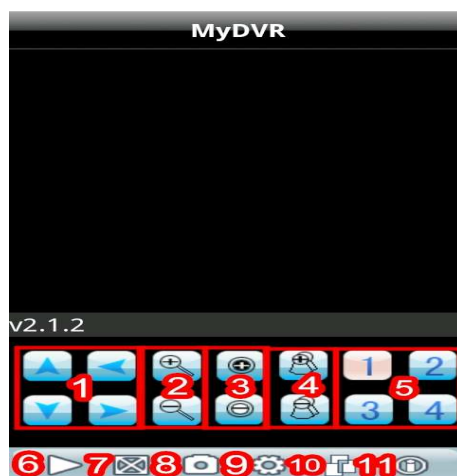
Step 9. Click the software to install to your phone.



Step 10. Enter into “Program” option to click “ASee ASee” icon .



Step 11. Enter into “ASee” main screen.



| | | | | | |
|----|--|--------------------|----|--|--------------|
| 1 | | PTZ Direction | 2 | | Zoom+ - |
| 3 | | Aperture | 4 | | Focus+ - |
| 5 | | CH Selection | 6 | | Play & Pause |
| 7 | | Full/Normal Screen | 8 | | Snapshot |
| 9 | | Setup | 10 | | CH change |
| 11 | | Help | | | |

Step 12. Click “Setup” button(9), to set the “Device info”.

| All Functions | |
|---------------|------------------------------------------|
| Address | Key-in the IP address of the DVR |
| Port | Key-in the Mobile Port Number of the DVR |
| Device Name | Key-in DVR name (Customize) |
| User ID | Key-in the User's Name |
| Password | Key-in the User's Password |


Step 13. Click “” button, to back to previous page.



The image shows a mobile application interface titled "Settings" with a "Back" button on the left and a "History" button on the right. Under the heading "Devices Info", there are five input fields: "Address:" with the value "60.248.198.130", "Port:" with the value "10080", "DeviceName:" with the value "DVR", "User ID:" with the value "guest", and "Password:" with a masked value ".....".

Step 14. Click “” button, to view videos , remotely.



 When your DVR is connecting internet through router, you need to forward the port at the virtual server option of your router.

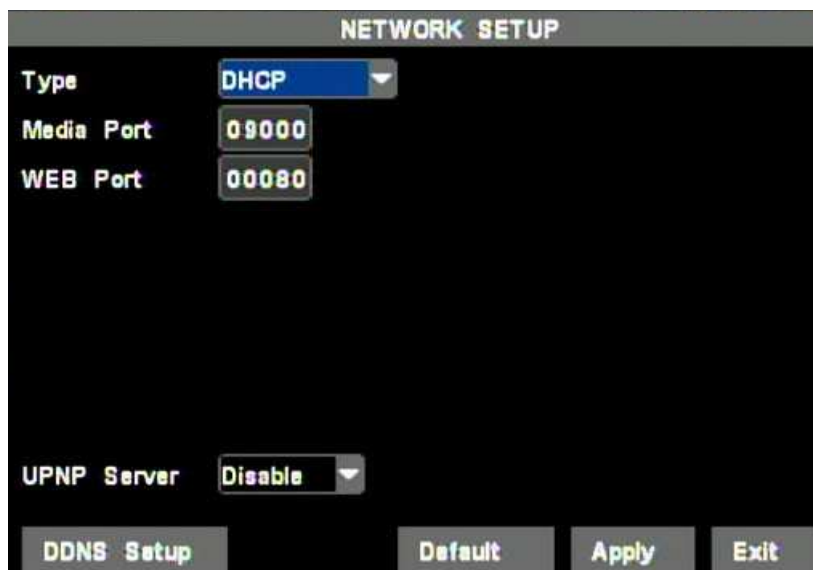
For more information, please refer to Appendix (mobile) in this section, as below:

Forwarding the port of Router for Mobile phone

Step 1. Setup the IP address and port of DHCP(3), and the click on "Apply" to confirm settings.

*The DHCP setting is for your reference only, there are 2 types of different internet→ PPPoE & Static IP.





Step 2. Click “Device” icon and then click “Mobile” icon.



Step 3. key-in the user name and password as well as server port.

*The port the mobile must the same as server port.

Step 4. Click "Apply" button.



The screenshot shows a configuration window titled "MOBILE". It contains three input fields: "User Name" with the value "admin", "User Password" with masked characters (stars), and "Server Port" with the value "18004". At the bottom of the window, there are three buttons: "Default", "Apply", and "Exit".



For customized support instructions of port forwarding ,due to the model of router is variety, please go to website:

http://portforward.com/english/applications/port_forwarding/KGuard_KG-SHA_DVRs/KGuard_KG-SHA_DVRsindex.htm



**For applying free Kguard DDNS , Please proceed to Appendix D.*

Chapter 6. Specifications

| Model | KG-SHA104.V2(4CH) | KG-SHA108.V2(8CH) |
|------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Video Compression | H.264 | |
| Video System | NTSC / PAL | |
| Operation System | Linux | |
| Video Input / Output | BNC 4-channels / VGA 1-channel ; BNC 2-channels | BNC 8-channels / VGA 1-channel ; BNC 2-channels |
| Audio Input / Output | 4-channels / 2-channels | 4-channels / 2-channels |
| Audio Compression | 8kHz*16bit ADPCM | |
| Display Frame Rate | PAL: 100 fps NTSC: 120 fps | PAL: 200fps NTSC: 240fps |
| Playback Resolution | NTSC: CIF(352x240), HD1(704x240), D1(704x480) PAL: CIF(352x288),HD1(704x288), D1(704x576) | NTSC: CIF(352x240), HD1(704x240), D1(704x480) PAL: CIF(352x288),HD1(704x288), D1(704x576) |
| Recording Frame Rate | NTSC: 60fps@D1,120fps@HD1/CIF PAL: 50fps@D1,100fps@HD1/CIF | NTSC: 60fps@D1,120fps@HD1,240fps@CIF PAL: 50fps@D1,100fps@HD1,200fps@CIF |
| Recording Mode | Continue / schedule: motion detection | |
| Recording Pack Time | 15/30/45/60mins file time selectable | |
| HDD Interface | One fixed HDD rack, supports up to 2TB SATA HDD | |
| Network Interface | RJ45, 10M/100M | |
| Network Protocol | Supports TCP/IP, DHCP,DDNS, PPPoE | |
| Network Function | Supports live view with IE (Internet Explorer) | |
| USB 2.0 | USB mouse, USB disk (backup, upgrade) | |
| Playback | Local: Playback 4 channels at the same time | Local: Playback 8 channels at the same time |
| Playback Search | Date/time, file list | |
| Playback Mode | PLAY / FWD/ Fast/Rewind/ Frame by Frame | |
| Backup | Backup via USB flash disk, USB HDD disk, USB CD/DVD-RW & Network | |
| PTZ Control | RS485 built-in, supports PELCO-P & PELCO-D | |
| Alarm Mode | Motion Detection, Video loss, HDD loss, HDD full | |
| Power Supply (power adaptor included) | DC 12V/3A | |
| Working Temperature | 50°F to 104°F (10°C to 40°C) | |
| Dimension (WxDxH) | 300*224*55mm | |
| Weight (with package) | 2.85 kg | 2.9 kg |

Chapter 7 Appendix

Appendix A – Time Zone Table

| Time Zone | Offset | DST | Start | End |
|--------------------------------------|-------------|-----|---------------------|---------------------|
| Samoa | GMT – 11:00 | | | |
| Hawaii | GMT – 10:00 | | | |
| Alaska | GMT – 09:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Pacific Time (US & Canada) | GMT – 08:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Arizona, US Mountain | GMT – 07:00 | | | |
| Chihuahua, La Paz, Mazatlan | GMT – 07:00 | ✓ | May, 1st Sun, 2:00 | Sep, last Sun, 2:00 |
| Mountain Time (US & Canada) | GMT – 07:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Central America, Saskatchewan | GMT – 06:00 | | | |
| Central Time (US & Canada) | GMT – 06:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Guadalajara, Mexico City, Monterrey | GMT – 06:00 | ✓ | May, 1st Sun, 2:00 | Sep, last Sun, 2:00 |
| Bogota, Lima, Quito, Indiana (East) | GMT – 05:00 | | | |
| Eastern Time (US & Canada) | GMT – 05:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Atlantic Time (Canada) | GMT – 04:00 | ✓ | Mar, 2nd Sun, 2:00 | Nov, 1st Sun, 2:00 |
| Caracas, La Paz | GMT – 04:00 | | | |
| Santiago | GMT – 04:00 | ✓ | Oct, 2nd Sun, 0:00 | Mar, 2nd Sun, 0:00 |
| Newfoundland | GMT – 03:30 | ✓ | Apr, 1st Sun, 2:00 | Oct, last Sun, 2:00 |
| Brasilia | GMT – 03:00 | ✓ | Oct, 3rd Sun, 2:00 | Feb, 3rd Sun, 2:00 |
| Buenos Aires, Georgetown | GMT – 03:00 | ✓ | Oct, 3rd Sun, 2:00 | Feb, 2nd Sun, 2:00 |
| Greenland | GMT – 03:00 | ✓ | Mar, last Sun, 1:00 | Oct, last Sun, 1:00 |
| Mid-Atlantic | GMT – 02:00 | ✓ | Mar, last Sun, 2:00 | Sep, last Sun, 2:00 |
| Azores | GMT – 01:00 | ✓ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Cape Verde | GMT – 01:00 | | | |
| Casablanca, Monrovia | GMT + 00:00 | | | |
| Dublin, London | GMT + 00:00 | ✓ | Mar, last Sun, 1:00 | Oct, last Sun, 2:00 |
| Western Europe, Central Europe | GMT + 01:00 | ✓ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| West Central Africa | GMT + 01:00 | | | |
| Eastern Europe | GMT + 02:00 | ✓ | Mar, last Sun, 0:00 | Oct, last Sun, 1:00 |
| Cairo | GMT + 02:00 | ✓ | Apr, last Fri, 2:00 | Sep, last Fri, 2:00 |
| Harare, Pretoria | GMT + 02:00 | | | |
| Helsinki, Kyiv, Riga, Sofia, Tallinn | GMT + 02:00 | ✓ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Jerusalem | GMT + 02:00 | ✓ | Apr 1, 2:00 | Oct, 2nd Sun, 2:00 |
| Baghdad | GMT + 03:00 | ✓ | Apr 1, 3:00 | Oct 1, 4:00 |


| | | | | |
|-----------------------------------|-------------|---|---------------------|---------------------|
| Kuwait, Riyadh, Nairobi | GMT + 03:00 | | | |
| Moscow, St. Petersburg, Volgograd | GMT + 03:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Tehran | GMT + 03:30 | ~ | Mar, 4th Tue, 2:00 | Sep, 4th Thu, 2:00 |
| Abu Dhabi, Muscat | GMT + 04:00 | | | |
| Baku, Tbilisi, Yerevan | GMT + 04:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Kabul | GMT + 04:30 | | | |
| Ekaterinburg | GMT + 05:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Islamabad, Karachi, Tashkent | GMT + 05:00 | | | |
| Chennai, Mumbai, New Delhi | GMT + 05:30 | | | |
| Kathmandu | GMT + 05:45 | | | |
| Almaty, Novosibirsk | GMT + 06:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Astana, Dhaka, Sri Lanka | GMT + 06:00 | | | |
| Rangoon | GMT + 06:30 | | | |
| Bangkok, Hanoi, Jakarta | GMT + 07:00 | | | |
| Krasnoyarsk | GMT + 07:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Irkutsk, Ulaan Bataar | GMT + 08:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Beijing, Chingqing, H. K., Urumqi | GMT + 08:00 | | | |
| Kuala Lumpur, Perth, Singapore | GMT + 08:00 | | | |
| Taipei | GMT + 08:00 | | | |
| Osaka, Seoul, Tokyo | GMT + 09:00 | | | |
| Yakutsk | GMT + 09:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Adelaide | GMT + 09:30 | ~ | Oct, last Sun, 2:00 | Mar, last Sun, 3:00 |
| Darwin | GMT + 09:30 | | | |
| Brisbane, Guam, Port Moresby | GMT + 10:00 | | | |
| Canberra, Melbourne, Sydney | GMT + 10:00 | ~ | Oct, last Sun, 2:00 | Mar, last Sun, 3:00 |
| Hobart | GMT + 10:00 | ~ | Oct, 1st Sun, 2:00 | Mar, last Sun, 3:00 |
| Vladivostok | GMT + 10:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Magadan, Solomon Is. | GMT + 11:00 | | | |
| Auckland, Wellington | GMT + 12:00 | ~ | Oct, 1st Sun, 2:00 | Mar, 3rd Sun, 2:00 |
| Fiji | GMT + 12:00 | | | |
| Kamchatka | GMT + 12:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Anadyr | GMT + 13:00 | ~ | Mar, last Sun, 2:00 | Oct, last Sun, 3:00 |
| Nuku'alofa | GMT + 13:00 | | | |

Appendix B – Play Back Utility

Installation (Utility Software/Applications)

Step1. Insert the Installation CD into the CD-ROM.

Step2. Execute "Autorun.exe". and then click on "Utility" button.

**If your computer can't execute the CD automatically, please click"  "(MY computer) and then click*



Autorun

,finally click on " " icon to execute it.

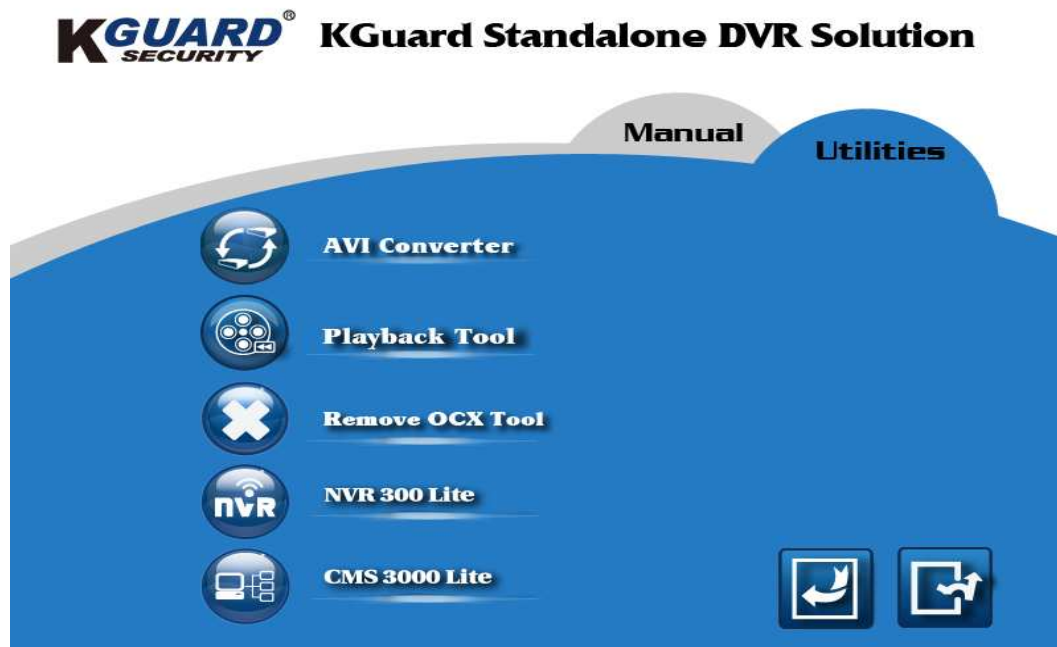


KGuard Standalone DVR Solution

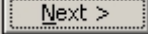




Step 3. Click icon to install playback file.



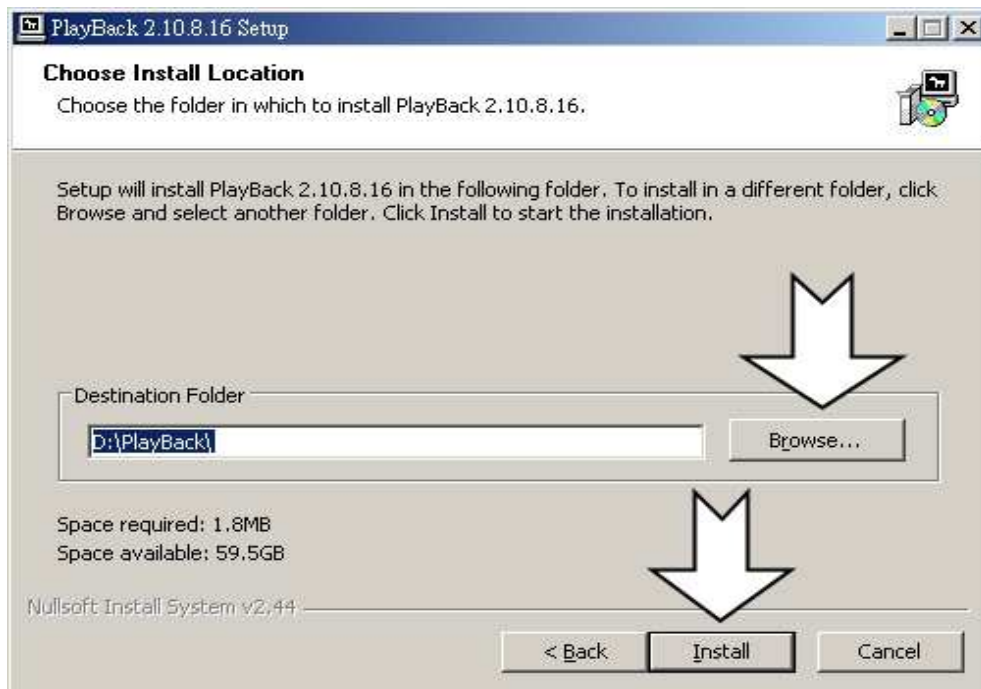
Step 4. The system will display the following setup procedure:

Step 5. Click  button to proceed to install playback software.



Step 6. Click "Install" button to proceed to the installation process.

Or you can click "Browse..." button to change to file folder.



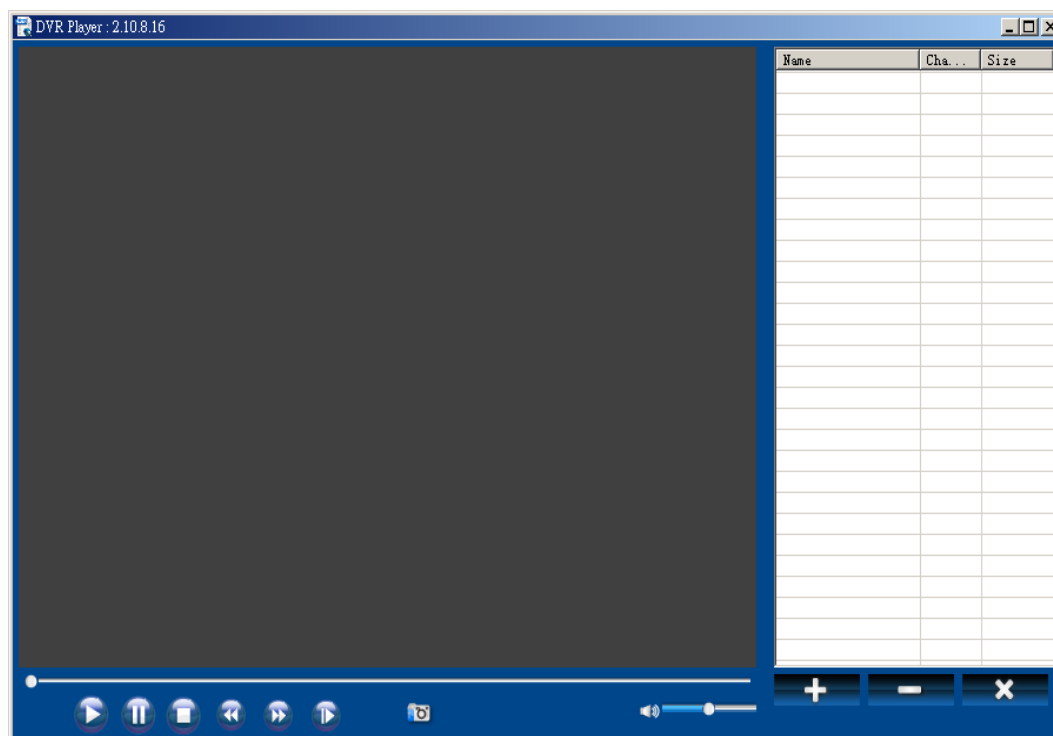
Step 7. After completed installation, Check "☒ Run PlayBack 2.10.8.16" box, and then click

Finish

button.



*The Playback main screen will display.



Playback Player

Select the playback file you desired from the files.



Please select the file with *.264 format or *.nvr.

The record file backed-up by U.S.B Device or removable disk is with *.264 format, and DVD Recorder with *.nvr format.











Play & Review Backup File

Double click the record event at the right side of screen to start record file playback.



The button functions from left to right in turn are as follows:



| All Functions | |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Button | Functions |
|  Play | Start playing record file |
|  Pause | Pause the record file playback |
|  Stop | Stop the record file playback |
|  Rewind | Rewind playing the record file at X2, X4, X8 and X16 speeds. |
|  Forward | Forward playing the record file at X2, X4, X8 and X16 speeds. |
|  Frame by Frame | Play the record file frame by frame. |
|  Snapshot | Click the button to capture the record image and save the image to a specified position. |
|  Add | Click the button to add one record file. |
|  Delete | Click the button to delete one record file. |
|  Delete all | Click the button to delete all the record files in the event list. |

Appendix C- Sustainable Record Time List

According to Resolution, Video Output, Video Input, Image parameter as well as audio input, the sustainable record time will be different.

Hence, we provide a formula for your reference:

Calculation formula:

$$\frac{A * 1024}{B * 24}$$

A = The capacity of HDD

B = The total space was used by HDD per hour.

Appendix D- Applying Free DDNS Host from Kguard

Step 1. Go to our website: <http://global.kguardsecurity.com/main/index.aspx?flag=1>

Step 2. Click on




If your IE browser was blocked ,please go to web site: <http://kguard.org/>

Step 3. The pop-up menu will display.

The image shows a screenshot of the KGuard Security website's registration page. At the top, there is a blue header with the "KGuard SECURITY" logo. Below the header, there are two buttons: "Logon" and "Registration". To the right of these buttons, there is a red heading "Welcome to KGuard Dynamic Domain Name Server" and a subtext "Create a user account or choose existing users below to begin." Below this, there is a yellow box with the text "NEW USER REGISTRATION". Inside this box, there are several input fields: "EMAIL ADDRESS", "PASSWORD" (with a yellow question mark icon), "PASSWORD CONFIRM", "FIRST NAME", "LAST NAME", "SECURITY QUESTION" (with a dropdown menu showing "My first phone number."), "ANSWER", and "CONFIRM YOU'RE HUMAN" (with a captcha image showing the number "623821" and the text "New Captcha"). At the bottom of the form, there are "Submit" and "Reset" buttons.

Step 4. Key-in the information, below.

| NEW USER REGISTRATION | |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMAIL ADDRESS | <input type="text"/> |
| PASSWORD | <input type="password"/> |
| PASSWORD CONFIRM | <input type="password"/> |
| FIRST NAME | <input type="text"/> |
| LAST NAME | <input type="text"/> |
| SECURITY QUESTION | <input type="text" value="My first phone number."/> ▼ |
| ANSWER | <input type="text"/> |
| CONFIRM YOU'RE HUMAN | <div> New Captcha <input type="text"/> Enter the text you see above</div> |
| <input type="button" value="Submit"/> <input type="button" value="Reset"/> | |

Key-in your E-mail address.

Setup your own password.

Reconfirm your password

Key-in your first name

Key-in your last name

Key-in authentic code



For junk mail block, we highly recommended you to avoid use free E-mail, for example, Gmail , yahoo mail... °

Step 5. Click on button.

Step 6. Define your own domain name.

| |
|---------------|
| User Settings |
| Domains |
| Logout |

Domain Name Creation

Enter a new domain name below.

You must create a domain name to continue.

Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case sensitive.

kguard.org ▼

Step 7. After complete applying process , the status will display “**check**” symbol in green, and also display your domain name.

*Please remind or write down this domain name.



KGUARD SECURITY

My Domains
Your domain names are listed below. Choose create new domain to add additional domain names.

Your domain was successfully created.

Search by Domain.

Click a name to edit your domain settings.

| NAME | STATUS | DOMAIN |
|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| KGAN |  |  |

Last Updater: *Not yet updated* IP Address: 

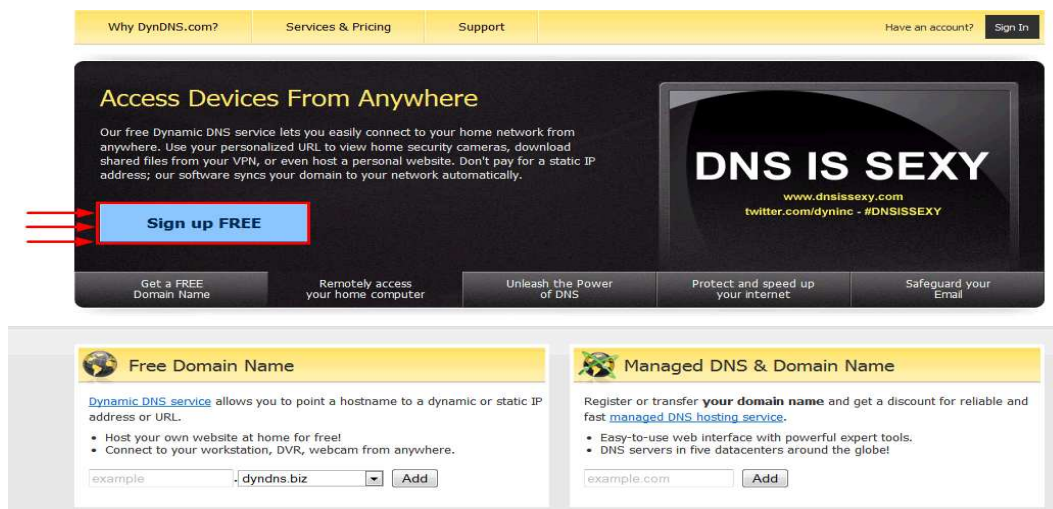
[Create additional domain names](#)

[1]

Appendix E- Applying free DDNS from internet

Step 1. Please go to <http://www.dyndns.com> and Click "Get a free Domain name" button.

Step 2. Click "Sign up free" icon.



Why DynDNS.com? Services & Pricing Support Have an account? Sign In

Access Devices From Anywhere

Our free Dynamic DNS service lets you easily connect to your home network from anywhere. Use your personalized URL to view home security cameras, download shared files from your VPN, or even host a personal website. Don't pay for a static IP address; our software syncs your domain to your network automatically.

Sign up FREE

Get a FREE Domain Name Remotely access your home computer Unleash the Power of DNS Protect and speed up your internet Safeguard your Email

Free Domain Name

Dynamic DNS service allows you to point a hostname to a dynamic or static IP address or URL.

- Host your own website at home for free!
- Connect to your workstation, DVR, webcam from anywhere.

example . dyndns.biz Add

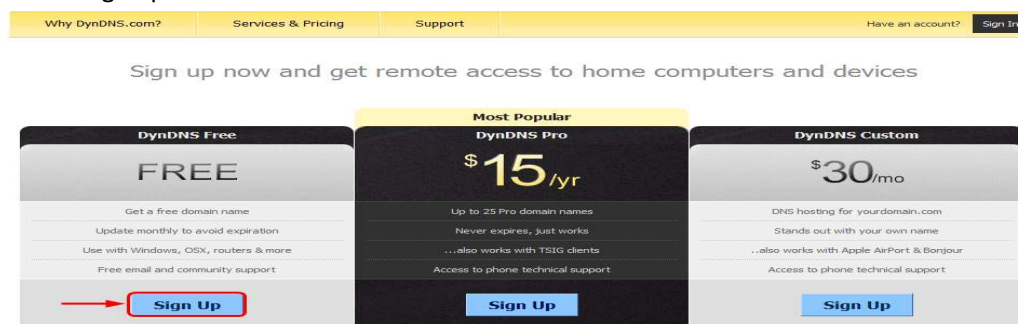
Managed DNS & Domain Name

Register or transfer your domain name and get a discount for reliable and fast managed DNS hosting service.

- Easy-to-use web interface with powerful expert tools.
- DNS servers in five datacenters around the globe!

example.com Add

Step 3. Choose free sign up



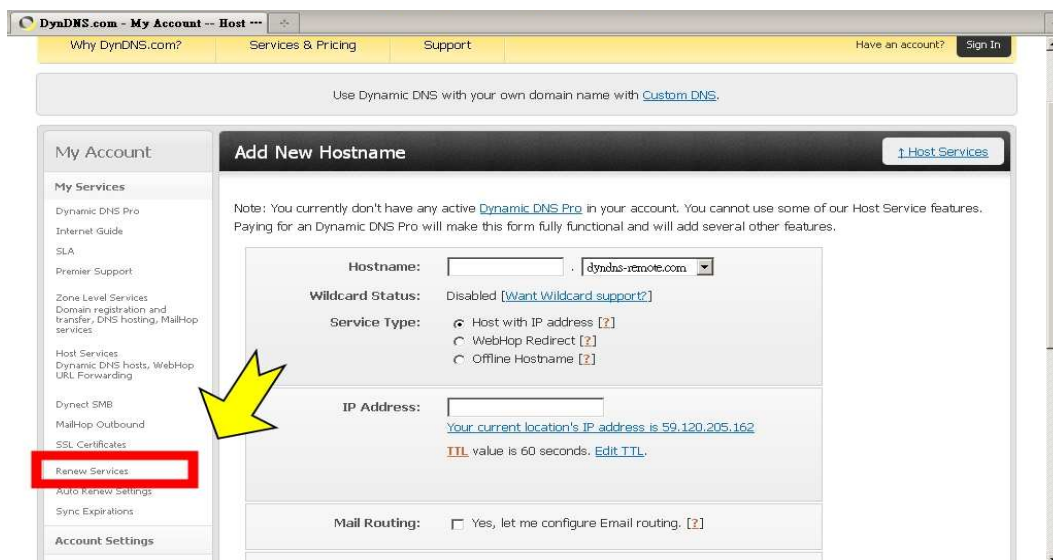
Why DynDNS.com? Services & Pricing Support Have an account? Sign In

Sign up now and get remote access to home computers and devices

| DynDNS Free | Most Popular DynDNS Pro | DynDNS Custom |
|---------------------------------------|-----------------------------------|--------------------------------------------|
| FREE | \$15/yr | \$30/mo |
| Get a free domain name | Up to 25 Pro domain names | DNS hosting for yourdomain.com |
| Update monthly to avoid expiration | Never expires, just works | Stands out with your own name |
| Use with Windows, OSX, routers & more | ...also works with TSIG clients | ...also works with Apple Airport & Bonjour |
| Free email and community support | Access to phone technical support | Access to phone technical support |
| Sign Up | Sign Up | Sign Up |

"Remote Desktop + DynDNS + private static IP = Win!" - @iris8733

Step 4. Click "Renew Services" option, in order to create new account.



Why DynDNS.com? Services & Pricing Support Have an account? Sign In

Use Dynamic DNS with your own domain name with Custom DNS.

My Account

My Services

- Dynamic DNS Pro
- Internet Guide
- SLA
- Premier Support
- Zone-Level Services
- Domain registration and transfer, DNS hosting, MailHop services
- Host Services
- Dynamic DNS hosts, WebHop
- URL Forwarding
- Dynect SMB
- MailHop Outbound
- SSL Certificates
- Renew Services**
- Auto Renew Settings
- Sync Expirations
- Account Settings

Add New Hostname

Note: You currently don't have any active Dynamic DNS Pro in your account. You cannot use some of our Host Service features. Paying for an Dynamic DNS Pro will make this form fully functional and will add several other features.

Hostname: [] . dyndns-remote.com

Wildcard Status: Disabled [Want Wildcard support?]

Service Type:

- ☒ Host with IP address [?]
- ☐ WebHop Redirect [?]
- ☐ Offline Hostname [?]

IP Address: []

Your current location's IP address is 59.120.205.162

TTL value is 60 seconds. Edit TTL.

Mail Routing: ☐ Yes, let me configure Email routing. [?]

Step 5. Create your own username, password, E-mail and enter the image numbers to create an account

Create account or log in to continue

Username:

Password:

Confirm password:

Email:

Confirm email:

Subscribe to:

- ☐ DynDNS.com newsletter (1 or 2 per month)
- ☐ Dyn Inc. press releases
- ☐ Remove HTML formatting from email

Security Image:

Enter the numbers from the above image:

☒ I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

Step 6. After you created your account, the company will sent an e-mail to verify your e-mail account

Step 7. Check your e-mail and see if you have received an e-mail from DynDNS.
Click on the link in the e-mail to complete the verification.

Your DynDNS.com Account Information

Your DynDNS.com Account 'kguardtest1' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

<https://www.dyndns.com/account/confirm/1kRU77LDelbudzLxPZUKvA>

Our basic service offerings are free, but they are supported by our paid services. See <http://www.dyndns.com/services/> for a full listing of all of our available services.

Why DynDNS.com? Services & Pricing Support Have an account?

My Account

- Create Account
- Login
- Lost Password?

My Cart
0 Items

Account Confirmed

The account kguardtest1 has been confirmed. You can now [login](#) and start using your account.

Getting Started

- Surf without the sharks and browse the web faster with [Internet Guide](#)
- Create a dynamic DNS host with your own domain name

INTERNET GUIDE
SURF WITHOUT THE SHARKS
CLICK HERE TO GET IN

Web filtering
Anti-spying
Anti-fraud
Anti-spam
Anti-malware
Faster web experience
No software settings needed
One-click install

Step 8. Now, go to <http://www.dyndns.com> and log in your username and password.

Step 9. Click **"MY Account"** → **"My Hosts"** option.

The screenshot shows the DynDNS.com user interface. At the top, there's a navigation bar with links like 'Why DynDNS.com?', 'Services & Pricing', 'Support', and a welcome message for 'kguardtest (FREE)'. Below this, the 'My Account' section is active, showing a sidebar with 'My Services', 'Account Settings', 'Billing', and 'My Cart'. The 'My Services' section contains a list of links: 'My Zones/Domains', 'Add Zone/Domain Services', 'My Hosts' (highlighted with a red circle and arrow), 'Add Host Services', 'Dynamic DNS Pro', 'Internet Guide', 'Spring Server VPS', 'MailHop Outbound', 'SSL Certificates', 'Support', 'Premier Support', 'Contact Support', and 'DNS Service Level Agreement'. Other sections include 'Billing' and 'Account Settings'.

Step 10. key in your hostname, IP address and then click **"Add To Cart"**.

The screenshot shows the DynDNS.com login page. At the top, there's a navigation bar with links like 'Why DynDNS.com?', 'Services & Pricing', 'Support', and a 'Sign In' link highlighted with a red circle. Below this, the 'My Account' section is active, showing a sidebar with 'Create Account', 'Login', 'Lost Password?', and 'My Cart'. The main content area has a 'Thank you for using DynDNS.com' message and a promotional banner for 'Enterprise DNS'. On the right, there's a login form with 'Username' and 'Password' input fields, both highlighted with red boxes and arrows, and a 'Log in' button. There are also links for 'Forgot Your Password?' and 'Create an Account'.

Why DynDNS.com? Services & Pricing Support Have an acc

My Account

Create Account
Login
Lost Password?

My Cart
0 Items

Powered by **Dyn**

Add New Hostname

Note: You currently don't have any active [Dynamic DNS Pro](#) in your account. You cannot use some of our Host Serv...
Paying for a Dynamic DNS Pro will make this form fully functional and will add several other features.

Hostname: [1.H](#)

Wildcard Status: Disabled [Want Wildcard support?](#)

Service Type:
☒ Host with IP address [?](#)
☐ WebHop Redirect [?](#)
☐ Offline Hostname [?](#)

IP Address: [Your current location's IP address is 59.120.205.162](#)
 TTL value is 60 seconds. [Edit TTL](#).

Mail Routing: ☐ Yes, let me configure Email routing. [?](#)

What do you want to use this host for?
 Select services and devices you would like to use with this hostname.

Work From Home Office or VPN:
[vpn](#) [remote file access](#) [remote desktop](#) [mail server](#) [web server](#)
[chat server](#) [ftp backup](#) [ssh](#) [database](#) [voip](#)

Hosting and Design For Web Sites and Blogs:
[blog](#) [gallery](#) [wiki](#) [portfolio](#) [ecommerce](#) [web page](#)

Remote Access For Devices:
[dvr](#) [webcam](#) [data storage](#) [cctv](#) [printer](#) [alarm and security](#)
[thermostat](#) [weather station](#) [game server](#) [home automation](#)

[Add To Cart](#)

Step 11. Click "Next" button.

Why DynDNS.com? Services & Pricing Support Welcome **kguardtest (FREE)** My Account Log Out

My Account

My Services
Account Settings
Billing
Active Services
Auto Renew Settings
Order History
Billing Profile

Powered by **Dyn**

Shopping Cart

Your cart contains **free services only**. You will not be asked for credit card information.

Upgrade Options

Free accounts allow only five Dynamic DNS hosts.

- To add more and enjoy [additional benefits](#) for only \$15.00 per year, [purchase Dynamic DNS Pro](#).
- To get Dynamic DNS for **your own domain**, use [Custom DNS](#).

Dynamic DNS Hosts

| | | | |
|---------------------------------------|---|------------------------|--------|
| kguardtest.dyndns.org | - | remove | \$0.00 |
|---------------------------------------|---|------------------------|--------|

Please enter coupons in the box below and click "Add Coupon".

[Add Coupon](#)

Sub-Total: \$0.00

Order Total: \$0.00

Would you like to [print an estimate/quote?](#)

[Next >>](#)

[view our refund policy](#)

Step 12. Click "Activate Services"

Why DynDNS.com? Services & Pricing Support Welcome **kguardtest (FREE)** My Account Log Out

My Account

My Services

Account Settings

Billing

Active Services

Auto Renew Settings

Order History

Billing Profile

Powered by Dyn

Free Services Checkout

Once you have confirmed the contents of your cart your services will be instantly activated.

| Service | Period | Price |
|------------------------------------------------------------------|--------|---------------|
| Dynamic DNS Hosts | | |
| kguardtest.dyndns.org | - | \$0.00 |
| Sub-Total: | | \$0.00 |

[Activate Services >>](#)

[view our refund policy](#)

Step 13. When activation is successful, the webpage will display the message:

Host Services

[↑ My Services](#)

kguardtest.dyndns.org successfully activated.

| Hostname | Service | Details | Last Updated |
|------------------------------------------------------------------|---------|-----------|-----------------------|
| kguardtest.dyndns.org | Host | 127.0.0.1 | Jun. 28, 2010 2:16 AM |

Step 14. Click on "Network" icon.



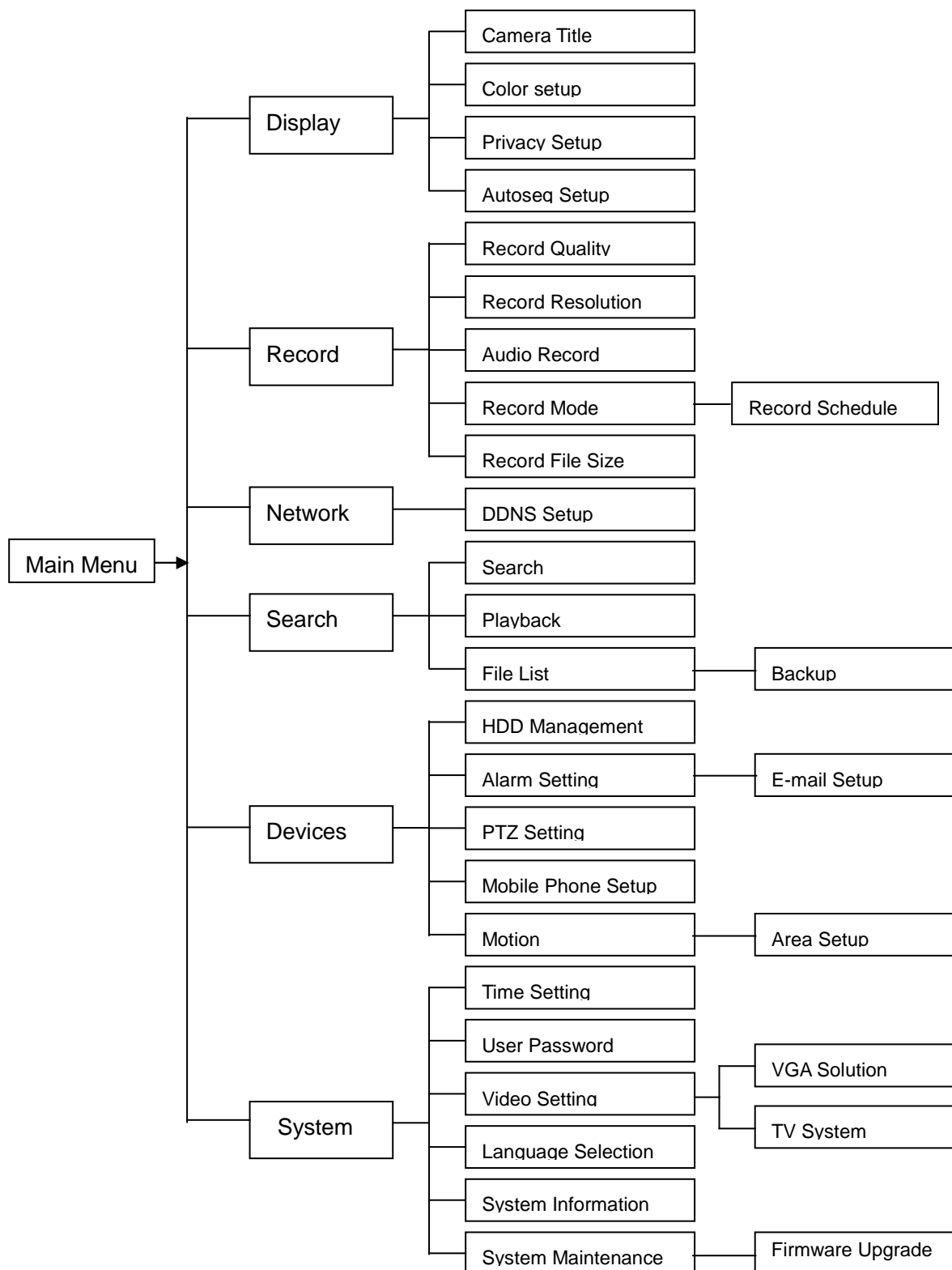
NETWORK SETUP

| | |
|-------------|-----------------|
| Type | Static IP |
| Media Port | 09000 |
| WEB Port | 00080 |
| IP ADDR | 192.168.003.104 |
| Netmask | 255.255.255.000 |
| Gateway | 192.168.003.254 |
| DNS Server1 | 192.168.002.100 |
| DNS Server2 | 168.095.001.001 |
| UPNP Server | Disable |

DDNS SETUP

| | |
|-----------|-----------------------------|
| DDNS | Enable |
| Server | KGUARD.ORG |
| Host name | antonio.kguard.org |
| User name | antonio_chang@kguard.com.tw |
| Password | ***** |

- Step 15. Enable the **DDNS**
- Step 16. Choose the **DDNS Server Type**
- Step 17. Fill out the **Hostname**(you just applied)
- Step 18. Fill out the **Username**(you just applied)
- Step 19. Fill out the **Password**(you just applied)
- Step 20. Click "**Apply**" button to Confirm the settings.

Appendix F- The Structure Diagram Of OSD Display

Appendix G- FAQ Troubleshooting

1. Q: What can I do if the system does not detect the HDD?

A: Check the data and power cables and make sure they are securely connected.

B: For new H.D.D, you have to format it first.

C: Make sure that the power of adaptor is correct, **12V/3A**.

2. Q: We have changed the password but do not remember the new password, how can we access the system?

A: If you forget system password, enter **519070** into the password field to reset the password.

3. Q: We are not getting any video signal on the DVR, what is wrong?

A: Check to make sure the cables are securely connected to the BNC ports on the DVR. You can also try another cable to make sure there is not a problem with the cable. Make sure you have selected the correct video format for your country (NTSC or PAL), in the USA we use NTSC.

4. Q: Can the DVR have problems if it gets too hot, how can I prevent this?

A: Please place the DVR in a place where there is good air circulation and away from high temperatures to increase stability and life of the DVR.

5. Q: My remote control does not work when the DVR is in Live mode but the front panel buttons are working, what is wrong?

A: Make sure nothing is blocking in front of LED on the remote or the receiver on the DVR, if both are ok, check the batteries.

6. Q: Can I use the hard drive from my PC in the DVR?

A: You can if the hard drive is the same type and the size is supported by the DVR. If you install it in the DVR it will be formatted for use in the DVR and the PC will not be able to read it.

7. Q: Do I have to stop recording to playback files on the DVR?

A: No you do not have to stop recording, the DVR will support both functions at the same time.

8. Q: Can I erase files from the hard drive of the DVR?

A: You can not erase individual file, you would need to format the hard drive which will erase all of the files

9. Q: We have attached a PTZ camera but can not control it, what is wrong?

A: Verify that the Protocol, baud rate, address, and other settings on the PTZ camera match the settings you have put into the DVR. Make sure the data cables are attached firmly to the RS485 port on the DVR.

10. Q: Why does the Buzzer keep sounding?

A: Please check to see if motion detection is on and the system has detected motion, make sure the hard drive is being detected and has sufficient space available and that none of your cameras have lost video. You can turn off the buzzer in the Alarm setup option.

11. I can connect to IE Browser, but how can my IE interface is a little bit difference?

A: The reason is the OCX of IE Browser which memorized other version IE interface, so your IE browser was conflict with other version. There's the solution:

1. Insert included CD into CD-ROM, and then click on " **Remove OCX Tool**" icon, and you will find the file "RM_SHA_OCX". Then close the IE browser and click it.



For further information and update information of FAQ, please go to website:

http://global.kguardsecurity.com/main/support_faq.aspx?mnuid=1560&modid=34

Appendix H -Email Server Check List

(The information below is for your reference only)

| (Web site) | Email address | Sender server (25) | Receiver server (110) |
|----------------------------------------------------|---------------|-------------------------|-------------------------|
| www.yahoo.com | @yahoo.com.tw | smtp.mail.yahoo.com.tw | pop.mail.yahoo.com.tw |
| | @yahoo.com | smtp.mail.yahoo.com | pop.mail.yahoo.com |
| www.google.com | @gmail.com | smtp.gmail.com(465/587) | pop.gmail.com(995) |

Appendix I- USB Device Support List

| USB 2.0 Device Support Suggestion | |
|-----------------------------------|----------|
| Brand | Capacity |
| Sandisk | 4G |
| Kingston | 4G |
| | 8G |
| | 16G |
| Kingston(DT Mini Slim) | 4G |
| Transend | 4G |
| Kingmax | 2G |
| | 8G |
| UNIS | 4G |

Appendix J- 3G Mobile Phone Local Service Center

| 3G Cell phone Support Suggestion | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brand | Service Center(Web site) |
| Blackberry | http://na.blackberry.com/eng/support/ http://uk.blackberry.com/support/ http://fr.blackberry.com/support/ http://sa.blackberry.com/support/ |
| Nokia | http://europe.nokia.com/support http://www.nokia.ca/get-support-and-software http://www.nokiausa.com/get-support-and-software/product-support |
| Sony Ericsson | http://www.sony.net/ http://www.sonyericsson.com/cws/cws/home?cc=ar&lc=es http://www.sonyericsson.com/cws/cws/home?cc=ca&lc=en |
| HTC | http://www.htc.com/us/#/?slide=1 http://www.htc.com/la/ |
| Apple | http://www.apple.com/support/iphone/ http://www.apple.com/support/country/ |

Appendix K -Mobile Phone support list

| Brand | Mobile(OS) | Model |
|-------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HTC | Windows Mobile | 8900/Apache/AT&T Pure/HD Diamond/P3600 Trinity/P3600i Trinity/P3650Cruise/P3651Touch Cruise/P4350/P4351/P4500 TyTN/P4550 TyTN 3G/T3333 Touch 2/T4242 Touch Cruise09/T5353Touch Diamond 2/T7377 AT&TTilt 2/T8282 Touch HD/T8285 Touch HD/T8290 Max Touch 4G/Touch/Diamond/Touch Dual/Touch Pro/Touch Pro 2/X7500Advantage/X7510 Advantage/XV6975 Imagio |
| | Android | Aria/ Desire/Dream/ Droid Eris/ Evo 4G/Hero/Incredible /Legend/ Magic/Tattoo/Wildfire |
| LG | Windows Mobile | CT810 Incite /GM730 Eigen /GM750 /GT810H /GW550 /GW820 eXpo/KS20 /VS750 Fathom |
| | Android | GT540 Swift / GW620 Eve / KH5200 Andro-1 / LU2300 Optimus Q / VS740 Ally |

| | | |
|----------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACER | Windows Mobile | DX650 / DX900 / E100 beTouch / E101 beTouch / M900 / neoTouch / X960 |
| | Android | E110 beTouch / E400 beTouch / Liquid |
| NOKIA | Symbian | 3250/5230/5233/5235 Comes With Music/5320 XpressMusic/5500 Sport/5530 XpressMusic/5630 Xpress Music/5700XpressMusic/5730 XpressMusic/5800 XpressMusic/6110 Navigator/6120 classic 6121 classic 6122c/6124 classic/6210 Navigator/6220 Classic 6290/6650 Fold 6720 Classic 6730 classic 6788/6790Mako/ C5/ C6/ E50/ E51/ E52/ E55/ E60/ E61/ E62/E63/ E65/ E66/ E70/ E71/E72/ E73 Mode/E75/E90/N71/N73/N75/N76/N77/N78/N79/N80/N81/N82 N85/N86/N91/ N92/N93/ N95/ N96/ N97/ N97 Mini/ X6 |
| SAMSUNG | Symbian | GT i7110 / GT i8510 Innov8 / GT i8910 Omnia / SGH G810 / SGH i450 / SGH i550 / SGH i560 / SGH L870 |
| | Windows Mobile | GT B7300 OmniaLITE/GT B7320 OmniaPRO/GT B7330 OmniaPRO/GT B7610 OmniaPRO/GT B7620 Giorgio Armani/GT C6620/GT C6625 Valencia/GT i8000 Omnia II/SCH i220 Code/SCH i760 /SCH i770 Saga/SCH i910 Omnia/SCH i920 Omnia II/SGH i300 /SGH i600/SGH i607 Blackjack/SGH i617 Blackjack2/SGH i627 Propel Pro/SGH i637, SGH i710/SGH i718/SGH i740/SGH i780 /SGH i900/SGH i908 Omnia/SPH i325 Ace/SPH i350 intrepid/SPH IP830/SPH M7350 OZ Omnia |
| SONY ERICSSON | Symbian (S60 v5) | U1 Satio / U5 Vivaz / U8 Kanna |
| | Windows Mobile(V.6) | M1 Aspen / X1 Xperia / X2 Xperia |
| Motorola | Windows Mobile | A3000 / A3100 / Q / Q9 |
| | Android | A555 Devour/A955 Droid II/Droid/Droid X/i1/ MB200 Cliq/ MB300/ MB501 Cliq XT/ MB511 Flipout/ Moto XT800/ MT710 ZHILING/ Quench XT3/ XT701 XT720 Motoroi |
| ASUS | Windows Mobile | M10 Nuvifone/ M20 Nuvifone/ P320/ P505/ P525/ P526/ P527/P550/ P552/ P750/ P835 |

| | | |
|-----------------|---------------------------|-------------------------------------------------------------------------------------------------------|
| BENQ | Windows Mobile | E72 / P51 |
| DELL | Windows Mobile | Axim X50 |
| | Android | Mini 3iX / Streak / Thunder |
| GIGABYTE | Windows Mobile | g-Smart i120 |
| | Android | GSmart G1305 Boston |
| HP | Windows Mobile | iPAQ 510 Mobile Messenger / iPAQ HW6500 / iPAQ K3 Glisten |
| i-MATE | Windows Mobile | i9502 Ultimate / i-mate Jamin / i-mate JAQ / i-mate JAQ3/ imate JASIAM / i-mate JASJAR / i-mate K-JAM |
| Kyocera | Windows Mobile | E-4000 Solo |
| | Android | M6000 Zio |
| Lenovo | Windows Mobile | ET980 / i921 |
| Palm | Windows Mobile | Treo 700 / Treo 750 / Treo 800 / Treo 850 Pro |
| PANTECH | Windows Mobile | C810 Duo / C820 Matrix Pro |
| | Android | IMA600S Sirius |
| SHARP | Android | IS01 |
| TOSHIBA | Windows Mobile | G710 / G900 / TG01 |
| VODAFONE | Windows Mobile | 1231 / VPA Compact IV / VPA III |

| | | |
|-------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GARMIN | Android | Garminfone |
| GOOGLE | Android | Nexus One |
| BlackBerry | BlackBerry | BlackBerry 8900/ BlackBerry 9000 Bold/ BlackBerry 9100 Pearl (9105 Pearl) /BlackBerry 9630 Tour /BlackBerry 9650 Tour2 /BlackBerry 9700 Onyx (Bold, 9020)/8900/8910/8980/9000/9630/9650/9700/9780/9800 |
| i-Phone | i-Phone | Apple iPhone 3G/3GS (OS 3.0 or later) Apple iPhone 4 / iPod touch, iPad |
| SIEMENS | Windows Mobile | SX66 |

Appendix L –H.D.D support list

| H.D.D Support list | | | |
|--------------------|--------------|--------------|-----------|
| Brand(Seagate) | Model | Capacity(GB) | Cache(M) |
| Pipeline HD | ST3250312CS | 250GB | 8M |
| | ST3320310CS | 320GB | 8M |
| | ST3500312CS | 500GB | 8M |
| | ST31000322CS | 1TB | 8M |
| Barracuda 7200.12 | ST3250318AS | 250GB | 8M |
| | ST3500418AS | 500GB | 16M |
| | ST31000528AS | 1TB | 32M |
| Barracuda 7200.10 | ST3250310AS | 250GB | 8M |
| | ST3320620AS | 320GB | 16M |
| Barracuda LP | ST32000542AS | 2TB | 32M |
| SV35.3 | ST3250310SV | 250GB | 8M |

| | ST3500320SV | 500GB | 32M |
|----------------|--------------|--------------|----------|
| | ST3750330SV | 750GB | 32M |
| | ST31000340SV | 1TB | 32M |
| SV35.4 | ST3320410SV | 320GB | 16M |
| SV35.5 | ST3250311SV | 250GB | 8M |
| | ST3500410SV | 500GB | 16M |
| | ST31000525SV | 1TB | 32M |
| Brand(WD) | Model | Capacity(GB) | Cache(M) |
| WD-AV | WD2500AVJS | 250GB | 8M |
| | WD3200AVJS | 320GB | 8M |
| WD AV-GP | WD2500AVVS | 250GB | 8M |
| | WD3200AVVS | 320GB | 8M |
| | WD5000AVDS | 500GB | 32M |
| | WD5000AVVS | 500GB | 8M |
| | WD10EVVS | 1TB | 8M |
| | WD10EVDS | 1TB | 32M |
| | WD15EVDS | 1.5TB | 32M |
| | WD20EVDS | 2TB | 32M |
| WD Caviar Blue | WD2500AAJB | 250GB | 8M |
| | WD2500AAJS | 250GB | 8M |
| | WD3200AAJB | 320GB | 8M |

| | WD3200AAJS | 320GB | 8M |
|-----------------|-----------------|--------------|----------|
| WD Caviar Green | WD5000AADS | 500GB | 32M |
| | WD10EADS | 1TB | 32M |
| WD RE4-GP | WD2002FYPS | 2TB | 64M |
| Brand(Hitachi) | Model | Capacity(GB) | Cache(M) |
| | HDT721032SLA360 | 320GB | 16M |
| | HDT725032VLA380 | 320GB | 8M |
| | HDS721010KLA330 | 1TB | 32M |
| CinemaSta | HCT721075SLA380 | 750GB | 8M |
| Brand(SAMSUNG) | Model | Capacity(GB) | Cache(M) |
| | HD502HI | 500GB | 16M |
| | HD103SI | 1TB | 32M |

The material in this document is the intellectual property of our department.

No part of this manual may be reproduced, copied, translated, transmitted, or published in any form or by any means without our department prior written permission.

Our products are under continual improvement and we reserve the right to make changes without notice. But no guarantee is given as to the correctness of its contents.

We do not undertake any responsibility for the harms cause by using our product.

The model of the products in the user's manual only for recognition, but these names also perhaps are belong to other company's registered trademark or the copyright.

The product picture may differ from the actual product, only for your reference. The accessories will probably be different according to the different selling areas. For details of accessories, please refer to your local distributor.

Copyright reserved